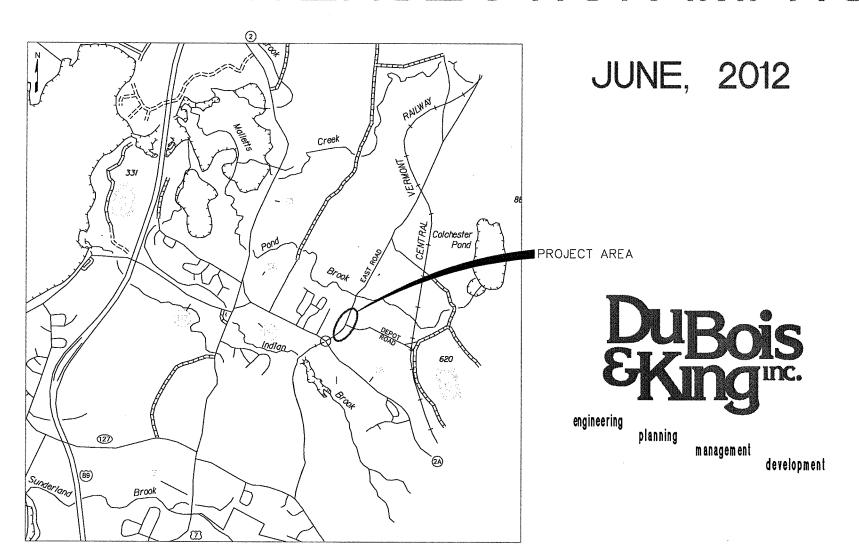
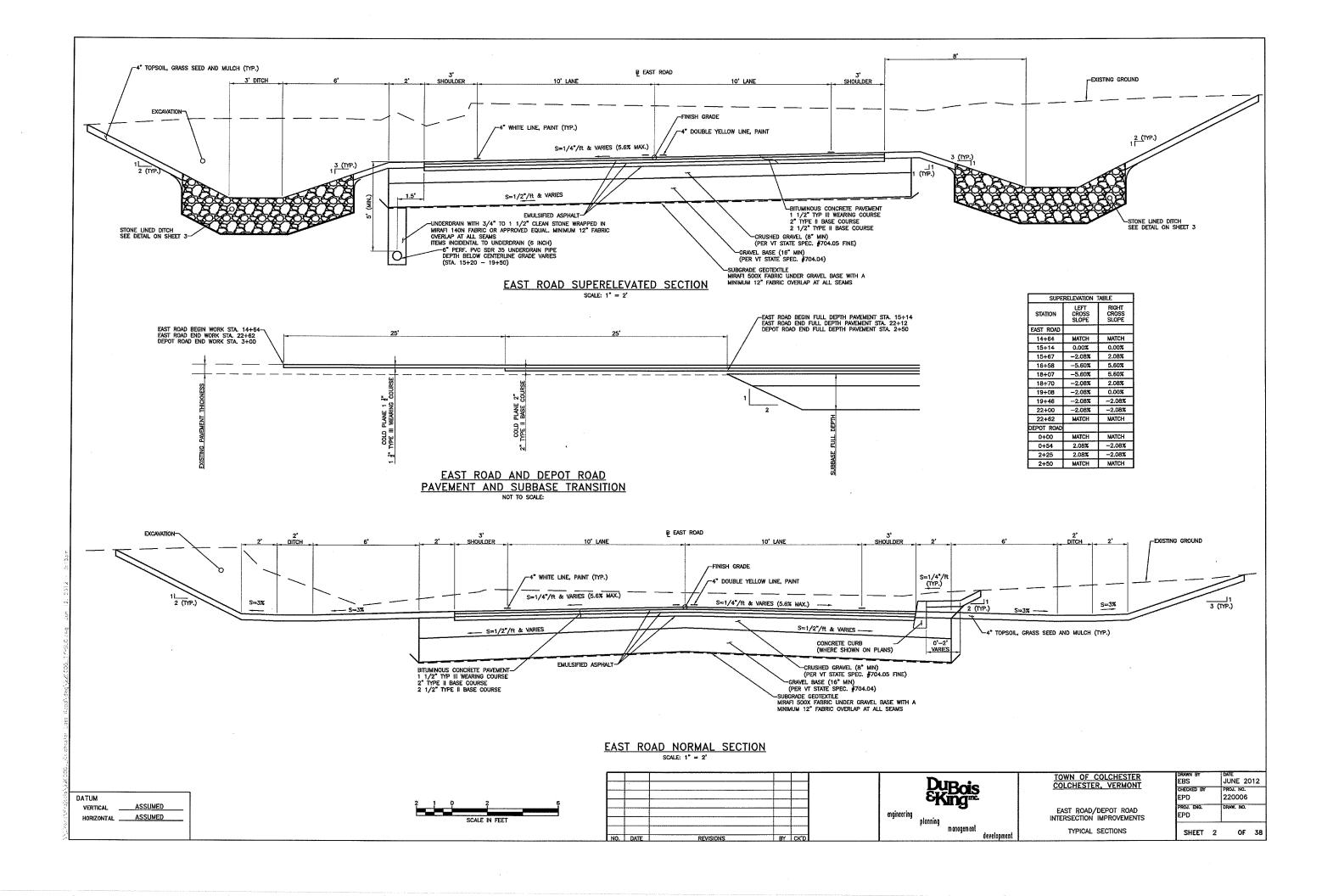
TOWN OF COLCHESTER COLCHESTER, VERMONT

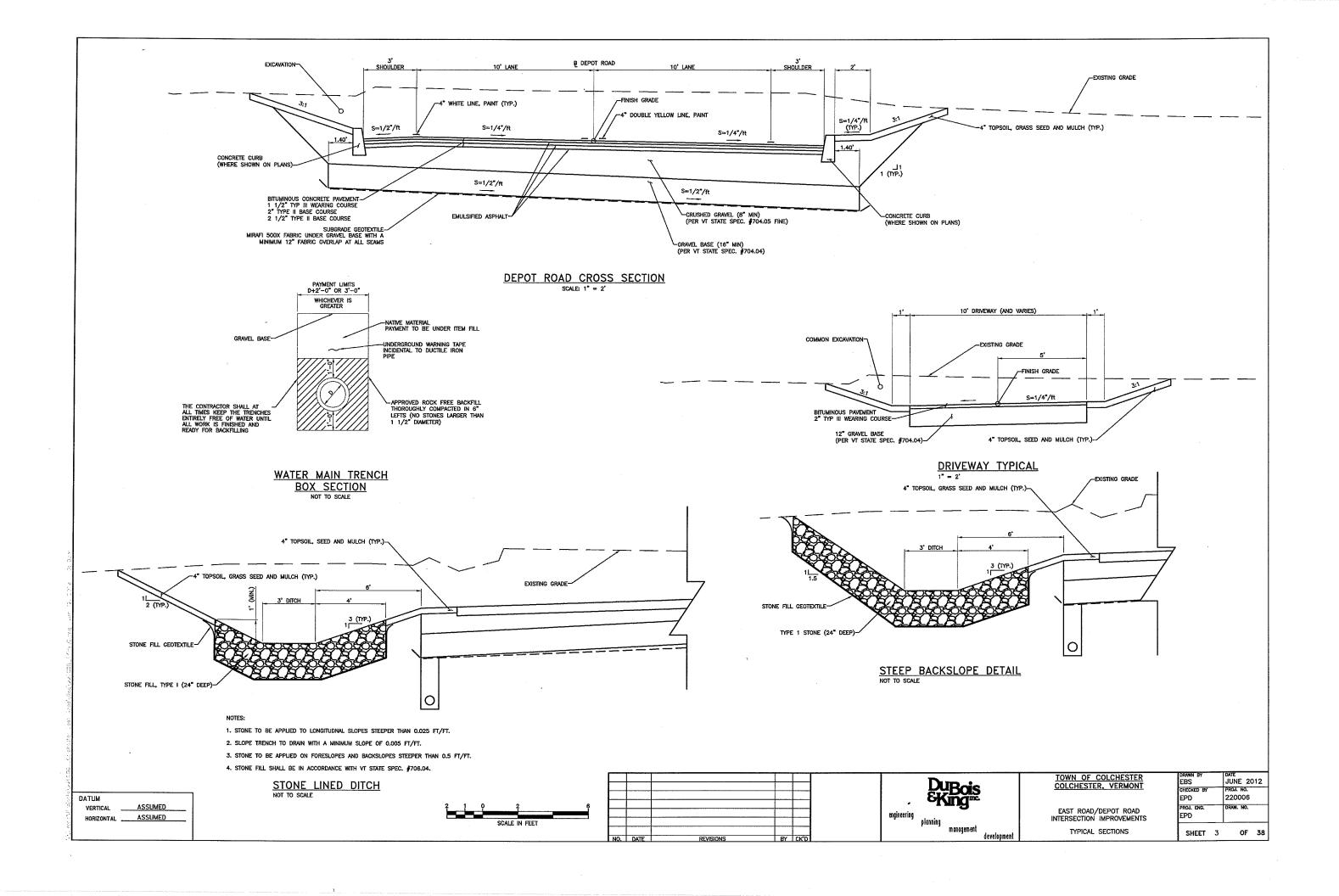
EAST ROAD / DEPOT ROAD INTERSECTION IMPROVEMENTS



LIST OF DRAWING

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GENERAL NOTES

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE TOWN OF COLCHESTER'S DEPARTMENT OF PUBLIC WORKS (DPW) SPECIFICATIONS AND STANDARDS AND ALSO THE VERMONT AGENCY OF TRANSPORTATION'S (VTRANS) STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2011 EDITION, LATEST REVISIONS AND VTRANS' STANDARD DRAWINGS FOR CONSTRUCTION FOR ANY COMPONENT NOT OTHERWISE COVERED UNDER THE TOWN OF COLCHESTER'S SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL NOT DISRUPT ANY EXISTING UTILITY SERVICE (PRIVATE OR PUBLIC) WITHOUT WRITTEN AUTHORIZATION FROM THE TOWN OF COLCHESTER.
- 3. SURFACE FEATURES SUCH AS SIGNS, FENCES, MAIL BOXES, STONE WALLS, PROPERTY CORNER MARKERS, ETC., ENCOUNTERED IN THE CONSTRUCTION OF THE PROJECT SHALL BE TAKEN DOWN, STORED AND RESET BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS. THE COST OF REMOVING AND RESETTING ITEMS SHALL BE INCIDENTAL TO THE CONTRACT.
- 4. ALL UTILITY POLES ARE TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED IN THESE PLANS.
- 5. SUBSURFACE FEATURES SUCH AS ELECTRIC AND TELEPHONE LINES, WATER LINES, SEWER LINES, STORM DRAIN AND CULVERTS, ETC., ENCOUNTERED IN THE CONSTRUCTION OF THE PROJECT SHALL BE PROTECTED, SUPPORTED, OR OTHERWISE MAINTAINED THROUGHOUT THE CONSTRUCTION BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT UNLESS PAYMENT IS SPECIFICALLY NOTED AS A SEPARATE PAY ITEM. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AND/OR HIGHWAY DEPARTMENTS WHEN THE WORK INVOLVES THEIR RESPECTIVE FACILITIES.
- 6. THE CONTRACTOR SHALL CONTACT "DIG SAFE" [1-888-DIG-SAFE (1-888-344-7233)] AND ALL AFFECTED UTILITY COMPANIES PRIOR TO PERFORMING ANY EXCAVATION, IN ACCORDANCE WITH DIG SAFE'S RULES OF NOTIFICATION. THE COST OF COORDINATING WITH DIG SAFE AND THE UTILITY COMPANIES SHALL BE INCIDENTAL TO MOBILIZATION/DEMOBILIZATION.
- 7. ANY SURFACE OR SUBSURFACE FEATURES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH THE RESTORATION SHALL BE AT THE CONTRACTORS SOLE EXPENSE.
- 8. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE RESIDENT ENGINEER AND SURVEYOR TO LAYOUT BASELINE, MAINTAINING HORIZONTAL AND VERTICAL CONTROL, AND RE-ESTABLISHING ELEVATIONAL BENCH MARKS THAT WILL BE LOST OR DISTURBED DURING CONSTRUCTION. THE COST TO LAYOUT AND MAINTAIN THE BASELINE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO MOBILIZATION/DEMOBILIZATION.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING CONDITIONS AFFECTING THE WORK. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK. SHOP DRAWINGS REQUIRED FOR VARIOUS ITEMS OF THE WORK SHALL INDICATE THE ACTUAL FIELD MEASUREMENTS BY THE CONTRACTOR PRIOR TO SUBMITTAL FOR THE ENGINEER'S APPROVAL AND SHALL BE SO NOTED.
- 10. ANY TREES OR BRANCHES WITHIN THE OVERHEAD AND SIDE CLEARANCE LIMITS INDICATED AND ANY TREE ROOTS ENCOUNTERED WITHIN THE EXCAVATION LIMITS SHALL BE SAW—CUT AND REMOVED. PAYMENT WILL BE INCIDENTAL TO CLEARING AND GRUBBING (INCL. INDIV. TREES & STUMPS).
- 11. RESTORATION OF DISTURBED AREAS: RESTORE DISTURBED AREAS, EXCEPT STONE FILL AREAS, WITH 4" TOPSOIL SEED AND MULCH, UNLESS THE RESIDENT ENGINEER DIRECTS THE USE OF SUITABLE EXCAVATED MATERIAL.
- 12. AN ON-SITE PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITY WITH THE CONTRACTOR, RESIDENT ENGINEER, DIRECTOR OF PUBLIC WORKS AND AFFECTED LANDOWNERS IN ATTENDANCE.

- 13. ALL SIGNAGE AND STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION AND ITS LATEST REVISIONS.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND UNDERSTANDING ALL APPLICABLE ENVIRONMENTAL PERMITS AND ENSURE THAT ALL CONSTRUCTION REQUIREMENTS ARE MET.
- 15 ALL WOODY DEBRIS (TREE LIMBS, BRANCHES) SHALL BE CHIPPED AND MULCHED ON-SITE AND USED FOR TEMPORARY EROSION CONTROL TO THE MAXIMUM EXTENT.
- 16. EMULSIFIED ASPHALT SHALL BE APPLIED AS A TACK COAT WHERE SHOWN ON TYPICAL SECTIONS AT A RATE OF 0.025 GAL / SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- 17. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL OR AS OTHERWISE NOTED ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE BEGINNING AND END OF THE PROJECT AND ALL SIDE ROAD APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. SAWCUTTING WILL NOT BE PAID FOR SEPARATELY. IT SHALL BE CONSIDERED INCIDENTAL TO COLD PLANING BITUMINOUS PAVEMENT.
- 18. BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS DRIVEWAYS AND AROUND DRAINAGE AND UTILITY STRUCTURES) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR BITUMINOUS CONCRETE PAVEMENT.
- 19. ALL SIGNS WITH CONSTRUCTION LIMITS SHALL BE TEMPORARILY REMOVED AND RESET.
- 20. STANDARDS, SPECIFICATIONS AND DETAILS FOR THE INSTALLATION OF WATER LINES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CHAMPLAIN WATER DISTRICT, FOUND IN APPENDIX A. OF THE COLCHESTER DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS AMMENDED MARCH 2012.

LIST OF COLCHESTER DPW STANDARDS

TYPICAL CONCRETE CURB	FIG. 3.8
DRIVEWAY ENTRANCE ON UNCURBED STREET	FIG. 3.10
PRECAST CATCH BASIN w/UNDERDRAIN and/or CURB HYDRANT FLAG	FIG. 4.2
CONCRETE THRUST BLOCK DATA	FIG. 5.1
WATER SERVICE CONNECTION	FIG. 5.14
HYDRANT ASSEMBLY DETAIL	FIG. 5.15
TAPPING SLEEVE AND VALVE DETAIL	FIG. 5.18
TYPICAL CONCRETE THRUST BLOCK DETAILS	FIG. 5.25
BEARING BLOCK DETAILS	FIG. 5.26
HYDRANT FLAG	FIG. 5.27
GRAVITY THRUST BLOCK DETAILS	FIG. 5.28
GRAVITY THRUST BLOCK DETAILS	FIG. 5.29
GUIDE to MULCH METERIALS, RATES, and Uses	_
CHECK DAM	FIG. 8.3

LIST	OF VTRANS STANDARD DRAWINGS	
E-100	CONSTRUCTION APPROACH SIGNS	01-02-2004
E-100A	SIDE ROAD CONSTRUCTION APPROACH SIGNS	01-02-2004
E-101	CONSTRUCTION SIGN DETAILS	05-30-2003
E-102	CONSTRUCTION SIGN DETAILS	06-30-2003
E-102A	CONSTRUCTION SIGN DETAILS	05-01-2004
E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	03-01-2004
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS	03-01-2004
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	06-30-2003
E-107A	BREAKAWAY BARRICADE DETAILS	06-08-2009
E-108A	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	06-08-2009
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08-08-1995
E-111	MINOR MAINTENANCE OPERATION	03-11-1997
E-112	TRAFFIC CONTROL FOR TYPICAL MOVING MAINTENANCE OPERATIONS	01-23-1997
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08-08-1995
E-193	PAVEMENT MARKING DETAILS	08-18-1995
J-3	MAILBOX SUPPORT DETAIL (SINGLE AND MULTIPLE SUPPORT)	08-07-1995

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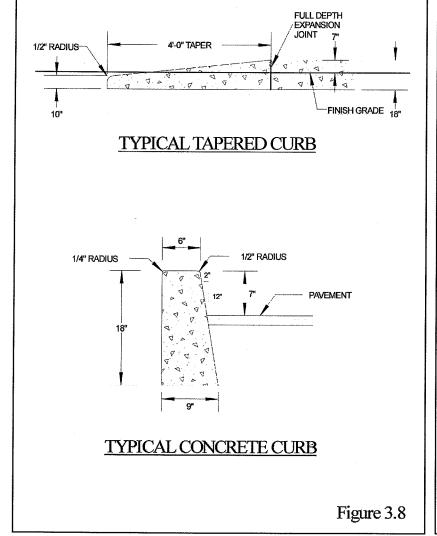
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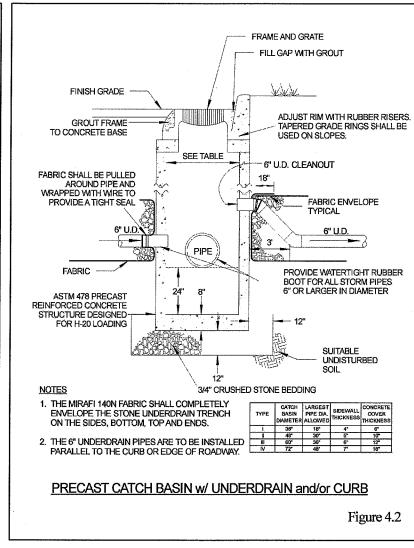
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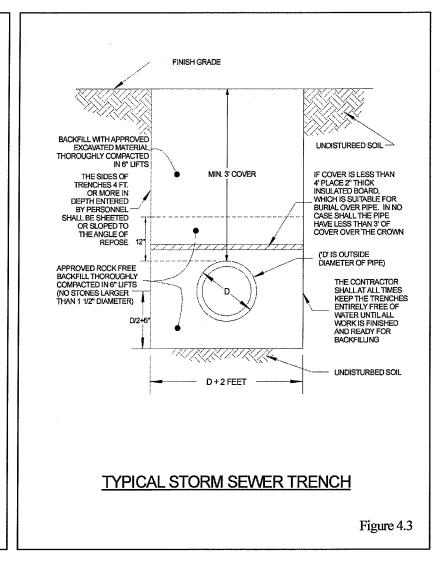
TOWN OF COLCHESTER
COLCHESTER, VERMONT

EAST ROAD/DEPOT ROAD
INTERSECTION IMPROVEMENTS

GENERAL NOTES SHEET





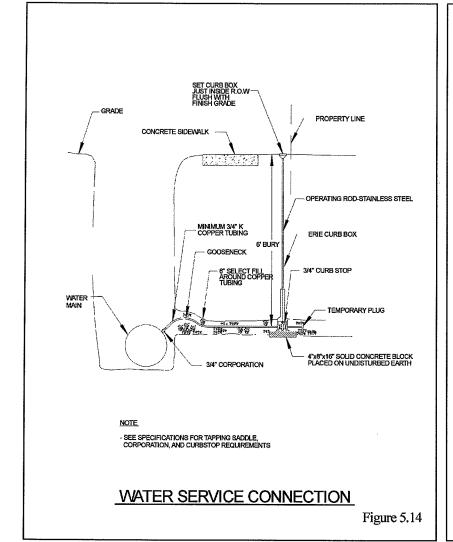


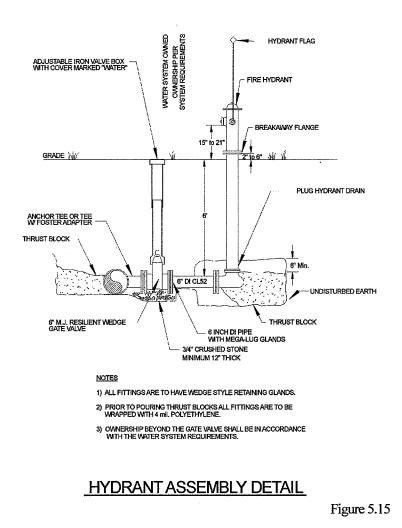
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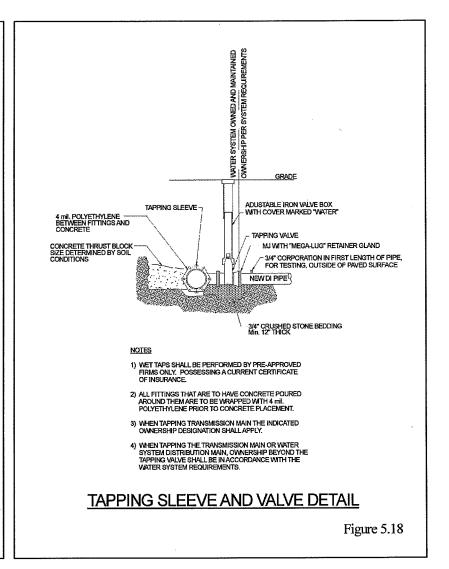
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EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS DETAIL SHEET 1

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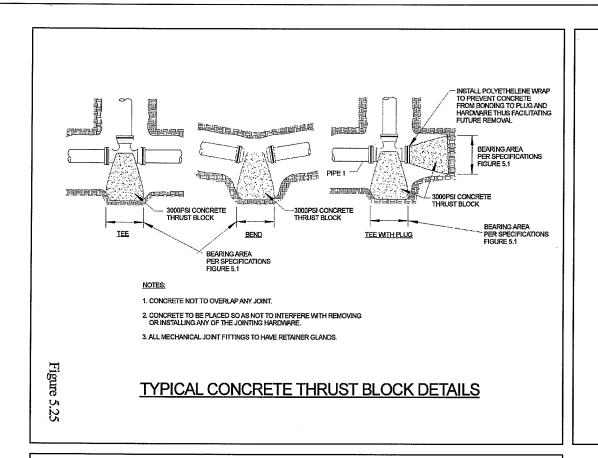


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TOWN OF COLCHESTER COLCHESTER, VERMONT

EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS DETAIL SHEET 2

JUNE 2012 220006 PROJ. ENG.



Mulch Material	Quality Standards	Per 1000 Sq. Ft.	Per Acre	Depth of Application	Remarks
Wood chips or shavings	Air-dried. Free of objectionable coarse material	500-900 lbs.	10-20 tons	2-7"	Used primarily around shrub and tree plantings and recreation trails to inhibit weed competition. Resistant to wind blowing. Decomposes slowly.
Wood fiber cellulose (partly digested wood fibers)	Made from natural wood usually with green due and dispersing agent	50 lbs.	2,000 lbs.		Apply with hydromulcher. No tie down required. Less erosion control provided than 2 tons of hay or straw.
Gravel, Crushed Stone or Slag	Washed; Size 2B or 3A - 1 1/2"	9 cu. yds.	405 cu. yds.	3"	Excellent mulch for short slopes and around plants and ornamentals. Use 2B where subject to traffic. (Approximately 2,000 lbs/cu. yd.). Frequently used over filter fabric for better weed control.
Hay or Straw	Air-dried. Free of undesirable seeds & coarse materials	90-100 lbs. 2- 3 bales	2 tons (100- 120 bales)	Cover about 90% surface	Use small grain straw where mulch is maintained for more than three months. Subject to wind blowing unless anchored. Most commonly used mulching material. Provides the best micro- environment for germinating seeds.
Jute twisted yarn	Undyed, unbleached plain weave. Warp 78 ends/yd., Weft 41 ends/yd. 60-90 lbs./roll	48"x 50 yds. or 48"x75 yds.	48"x 50 yds. or 48"x75 yds.		Use without additional mulch. Tie down as per manufacturer's specifications. Good for centerline of concentrated water flow.
Excelsior wood fiber mats	Interlocking web of excelsior fibers with photodegradable plastic netting	8"x100" 2- sided plastic, 48"x180" 1- sided plastic	8"x100" 2- sided plastic, 48"x180" 1- sided plastic		Use without additional mulch. Excellent for seeding establishment. Approximately 72 lbs./roll for excelsior with plastic on both sides. Use 2-sided plastic for centerline of waterways.
Compost	Up to 3" pieces, moderately to highly stable	3-9 cu. yds.	134-402 cu. yds.	1-3"	Coarser textrured mulches may be more effective in reducing weed growth and wind erosion.
Straw or coconut fiber, or combination	Photodegradable plastic net on one or two sides	Ost are 6,5 ft. x 3.5 ft,	81 rolls		Designed to tolerate higher velocity water flow, centerlines of waterways, 60 sq. yds. per roll.

Guide to Mulch Materials, Rates, and Uses

MINIMUM AREA IN SQUARE FEET OF BEARING SURFACE REQUIRED FOR CONCRETE THRUST BLOCKS

	3				4	•			6				8	•			12	2"			16	5"			SAFE
ENDS STEES				ENDS &TEES			22.5° ELB	ENDS &TEES				ENDS &TEES			22.5° ELB		90°		22.5° ELB		90°		22.5° ELB	SOIL CONDITIONS	BEARING LOAD (PSF)
0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	4.0	5.5	3.0	1.5	8.0	10.0	5.0	4.0	SOUND SHALE	10,000
1.0	1.0	1.0	0.5	1.5	2.0	1.0	0.5	3.0	4.0	2.0	1.0	4.5	6.5	3.5	2.0	10.0	14.0	7.5	4.0	25.0	30.0	15.0	12.0	CEMENTED GRAVEL & SAND	4,000
1.0	1.5	1.0	1.5	2.0	2.5	1.5	1.0	3.5	5:0	3.0	1.5	6.0	8.5	5.0	2.5	13.0	1.8.5	10.0	5.0	30.0	35.0	20.0	15.0	COURSE & FINE COMPACT SAND	3,000
1.5	2.5	1.5	1.0	2,5	3.5	2.0	1,0	5.5	7.5	4.0	2,0	9.0	13.0	7.0	3.5	20.0	27.5	15.0	8.0	40.0	45.0	25.0	20.0	MEDIUM CLAY (CAN BE SPADED)	2,000
3.0	4.5	2.5	1.5	5.0	7.0	4.0	2.0	10.5	15.0	8.0	4.0	18,0	25.0	14.0	7.0	39.0	55.0	30.0	15.0	80.0	90.0	50.0	40.0	SOFT CLAY	1,000

THRUST BLOCKS ON PIPE LARGER THAN 16" DIA ARE TO BE DESIGNED BY A PROFESSIONAL ENGINEER.

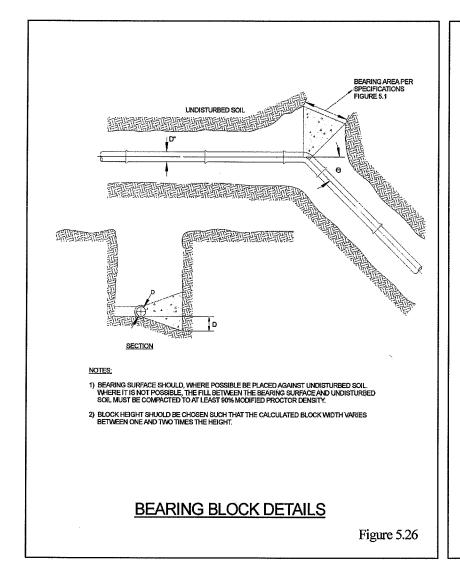
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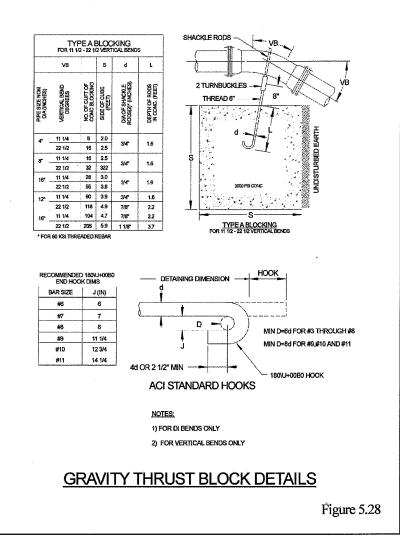
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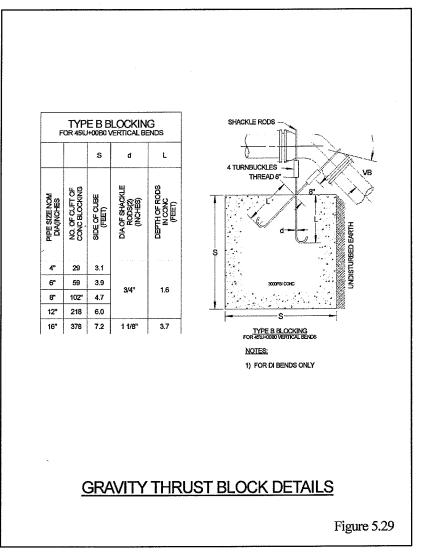
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JUNE 2012 PROJ. NO. 220006 PROJ. ENG. EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS DETAIL SHEET 3 SHEET 7

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EAST ROAD/DEPOT ROAD
INTERSECTION IMPROVEMENTS
DETAIL SHEET 4

TOWN OF COLCHESTER COLCHESTER, VERMONT

QUANTITY SHEET 1 AGENCY OF TRANSPORTATION SUMMARY OF ESTIMATED QUANTITIES DETAILED SUMMARY OF QUANTITIES DETAILED SUMMARY OF QUANTITIES GOV'T NON-ROADWAY QUANTITIES UNIT TRAINING BRIDGE ROUNDING QUANTITIES UNIT ITEMS QUANTITIES UNIT ITEMS PARTIC. LS CLEARING AND GRUBBING, INCL. INDIVIDUAL TREES & STUMPS EACH REMOVING LARGE TREES 9350 CY EARTH EXCAVATION 9350 10.0 290 290 CY FILL 650 CY TRENCHING 650 5.3 340 CY BACKFILL 340 6.5 550 SY COLD PLANING BITUMINOUS PAVEMENT 550 210.10 12.8 1400 CY GRAVEL BASE 1400 18.3 1150 1150 CY CRUSHED GRAVEL 6.6 30 CWT EMULSIFIED ASPHALT 30 4.0 1000 1000 TON BITUMINOUS CONCRETE PAVEMENT 19.0 220 LF 15" CORRUGATED POLYETHYLENE PIPE (PE) 220 EACH CATCH BASIN 450 450 LF UNDERDRAIN (6 INCH) 24.0 MGAL DUST CONTROL (WITH WATER) 620 620 CY STONE FILL, TYPE I 613.10 4.6 620 LF CONCRETE CURB 620 616.41 3.0 10 LF REMOVAL OF EXISTING CURB EA RELOCATE MAILBOX, SINGLE SUPPORT 617.10 EA YIELDING MARKER POSTS 619,17 EA REMOVING AND RESETTING PROPERTY MARKERS 619.20 EA WATER SERVICE CONNECTION 610 610 LF DUCTILE IRON PIPE (8 INCH) 10 250 250 LF DUCTILE IRON PIPE (12 INCH) EA TAPPING SLEEVE AND VALVE EA HYDRANT ASSEMBLY EA REMOVE HYDRANT 629.30 LS TESTING AND DISINFECTION 100 HR UNIFORMED TRAFFIC OFFICERS 100 630.10 10.0 2170 HR FLAGGERS 2170 630.15 10.0 SEE VERMONT AGENCY OF TRANSPORTATION (VTRANS) 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011 FOR ITEMS WITH TOWN OF COLCHESTER COLCHESTER, VERMONT JUNE 2012 CHECKED BY PROJ. NO. 220006 DATUM ASSUMED DRAW, NO. VERTICAL PROJ. ENG. EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS HORIZONTAL ASSUMED QUANTITY SHEET 1 OF 38 SHEET 9

STATE OF VERMONT

QUANTITY SHEET 2

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			•	SUMMARY C	F ESTIMATI	ED Q	JANTITIES					DETAILED SUMMARY OF QUANTITIES
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	l l				1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
					l	LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
					1		TRAFFIC CONTROL	641.10	-			
				2200	2200		4 INCH WHITE LINE, PAINT	-	55			
				1950	1950	LF	4 INCH YELLOW LINE, PAINT	-	48			
				30	30	LF	24 INCH STOPBAR, PAINT	-	4			
				2910	2910	SY	SUBGRADE GEOTEXTILE	-	1.1			
				1250	1250	SY	STONE FILL GEOTEXTILE		23. 4			
				40	40	LB	GRASS SEED	-	7.9			
				2	2		MULCH	_	0.9			
				300	300		TOPSOIL	_	12.3			
				100	100	CY	STONE CHECK DAMS	-	5.2			
				2	2	EA	INLET PROTECTION	-	-			
				2	2	EA	SMALL TREES (DECIDUOUS)	-	-			,
				17	17	EA	LARGE TREES (CONIFEROUS)	-	-			
				4	4	EA	LARGE TREES (DECIDUOUS)	 			-	
				10	10		REMOVING SIGNS	675.50	_			
	***************************************			10	10		ERECTING SALVAGED SIGNS	675.60	-			
				8	8	EA	SETTING SALVAGED POSTS	675.61	-			
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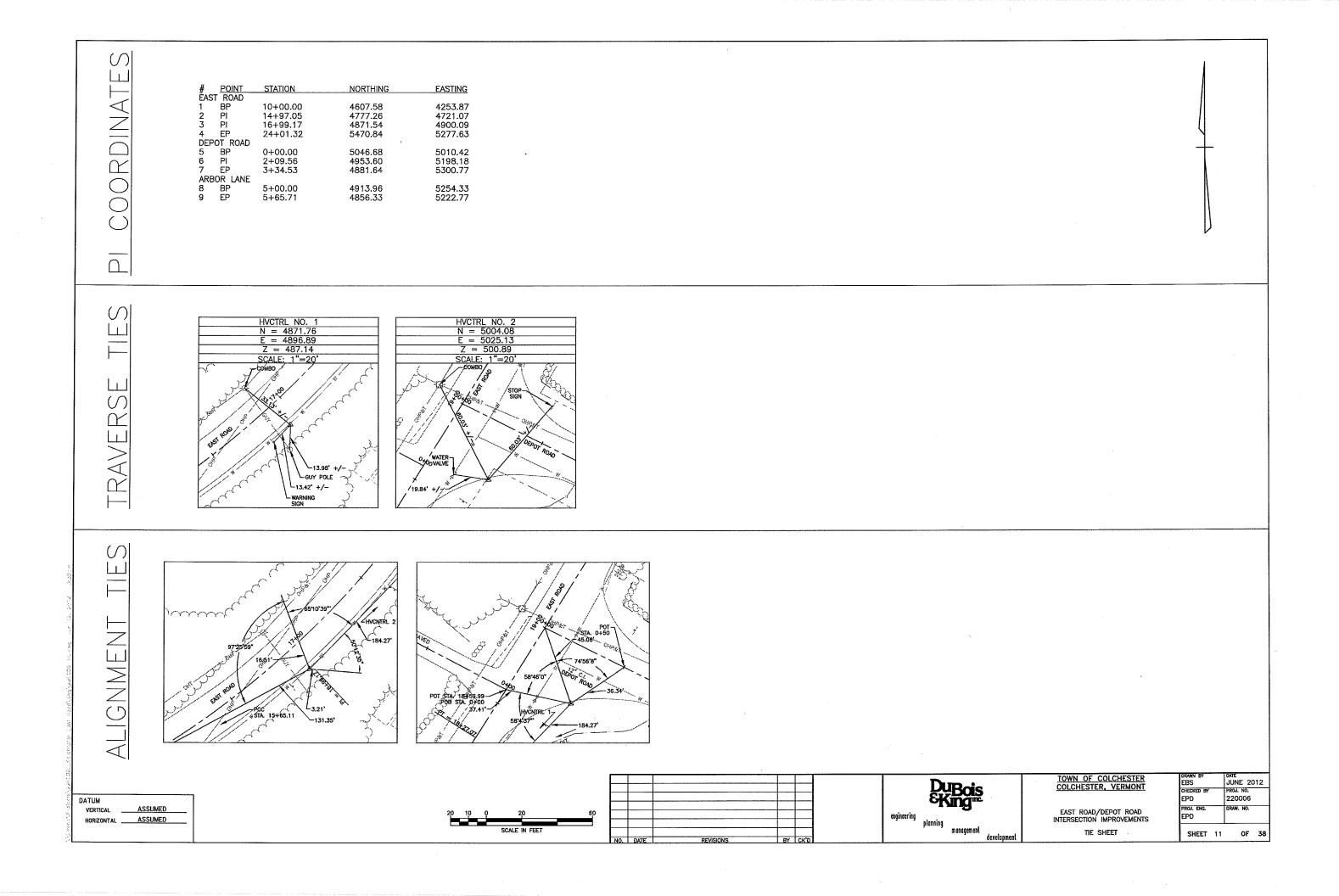
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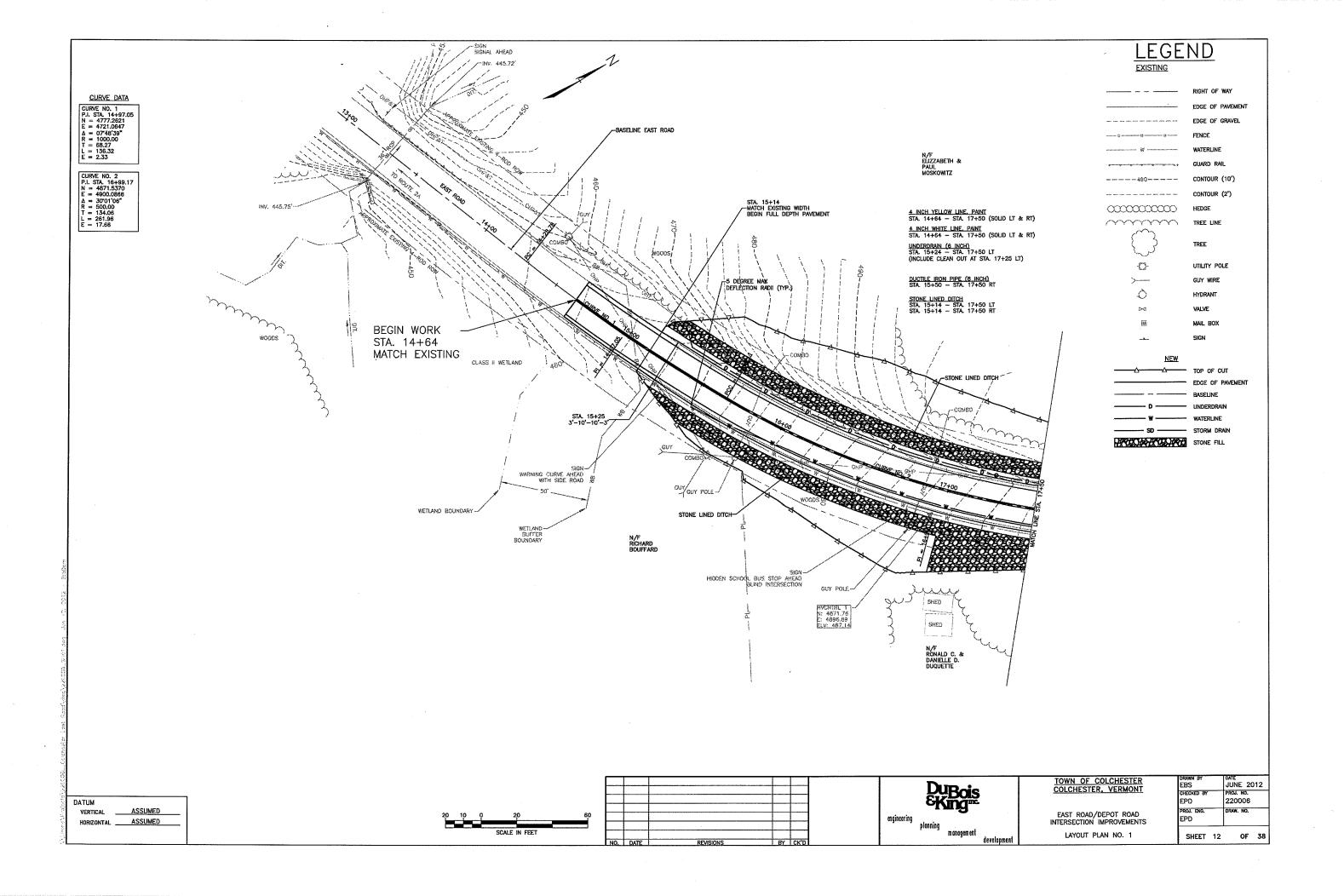
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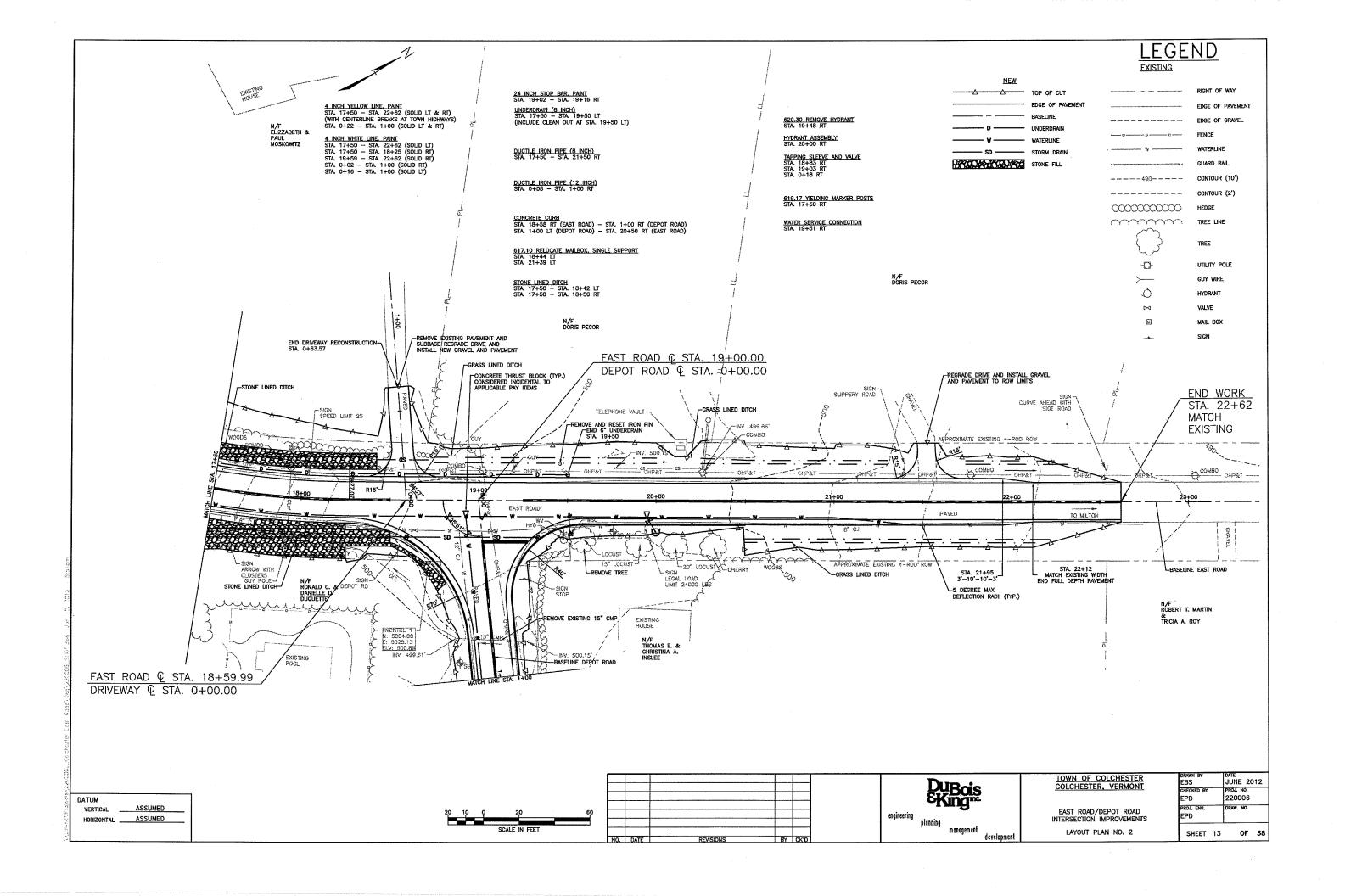
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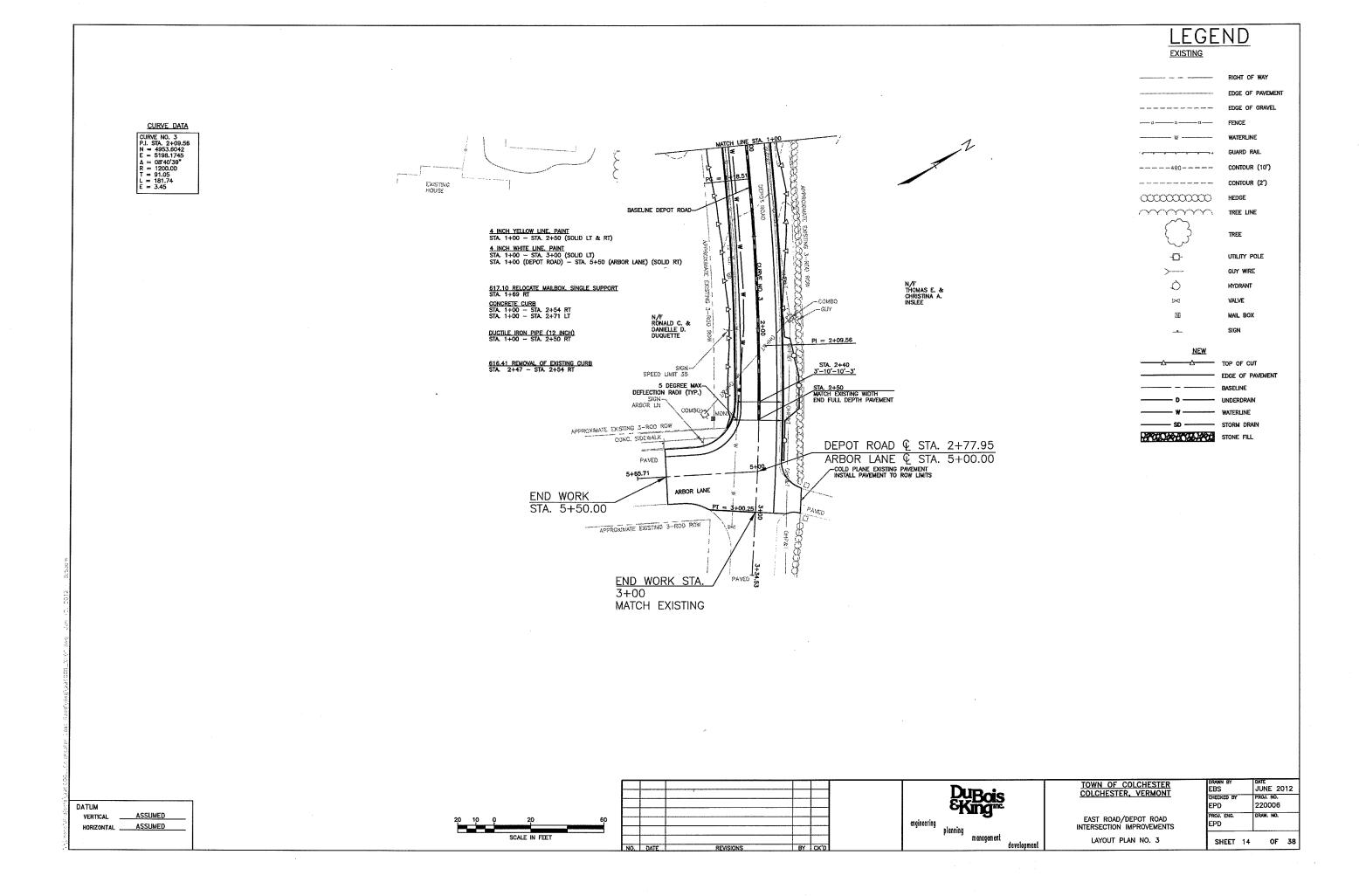
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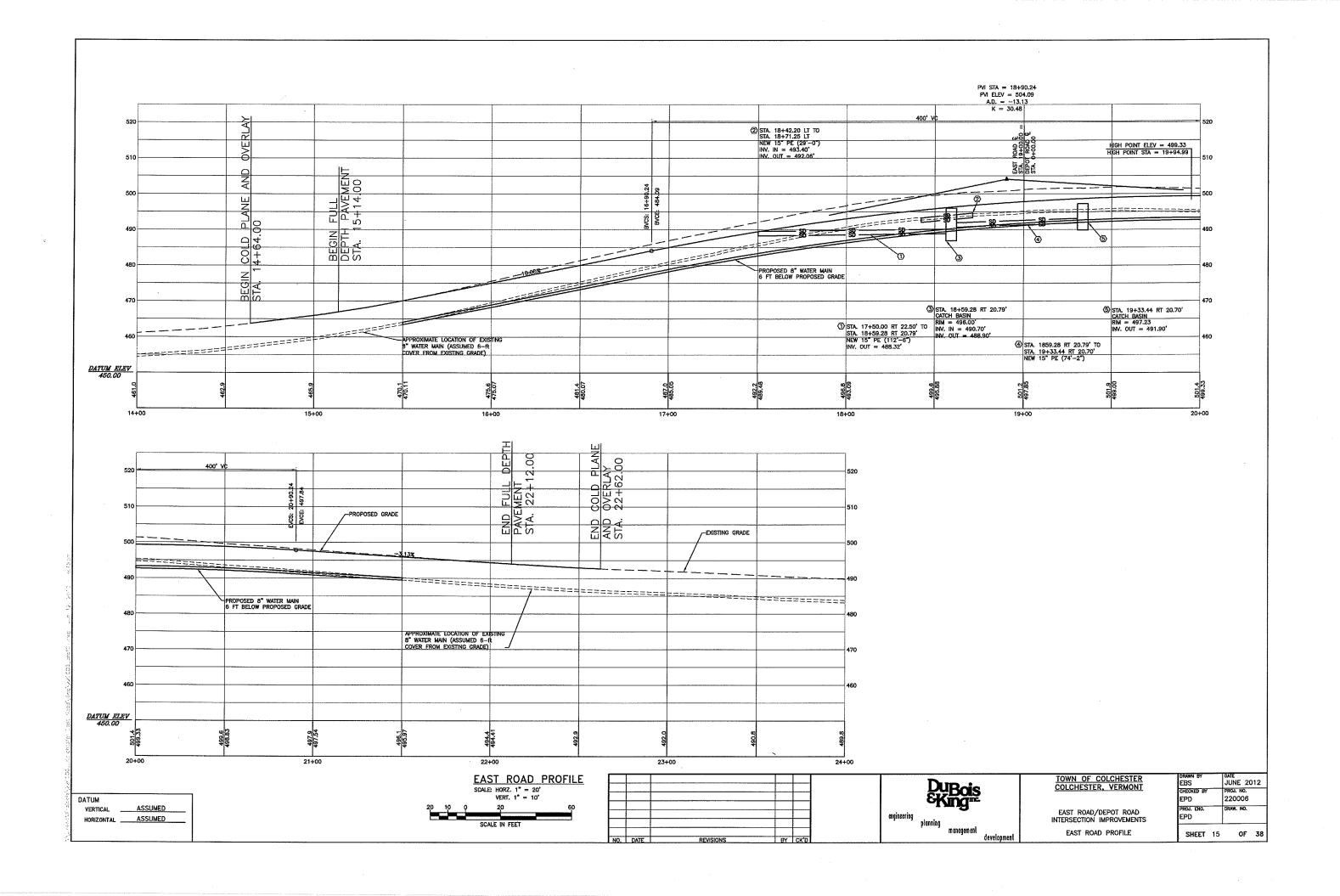
EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS QUANTITY SHEET 2

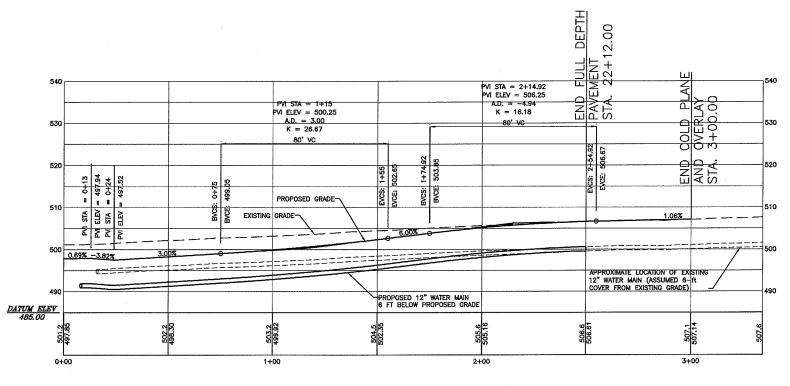








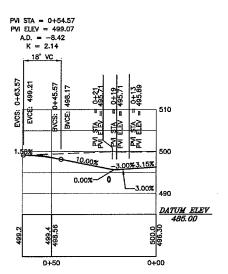




DEPOT ROAD PROFILE

SCALE: HORZ. 1" = 20'

VERT. 1" = 10'



STA. 18+59.99 LT

<u>DRIVE PROFILE</u>

SCALE: HORZ. 1" = 20'

VERT. 1" = 10'

DATUM

VERTICAL

ASSUMED

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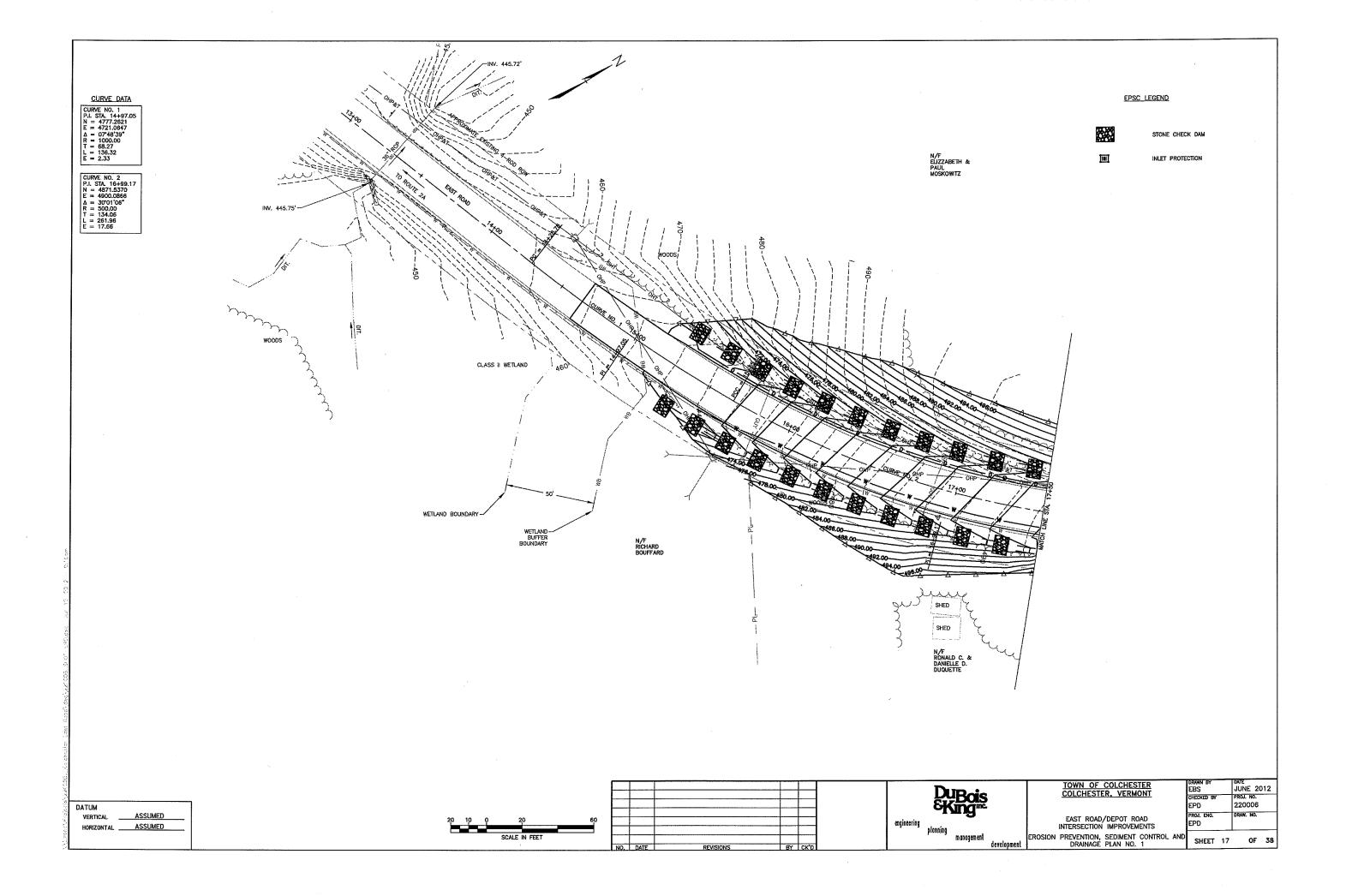
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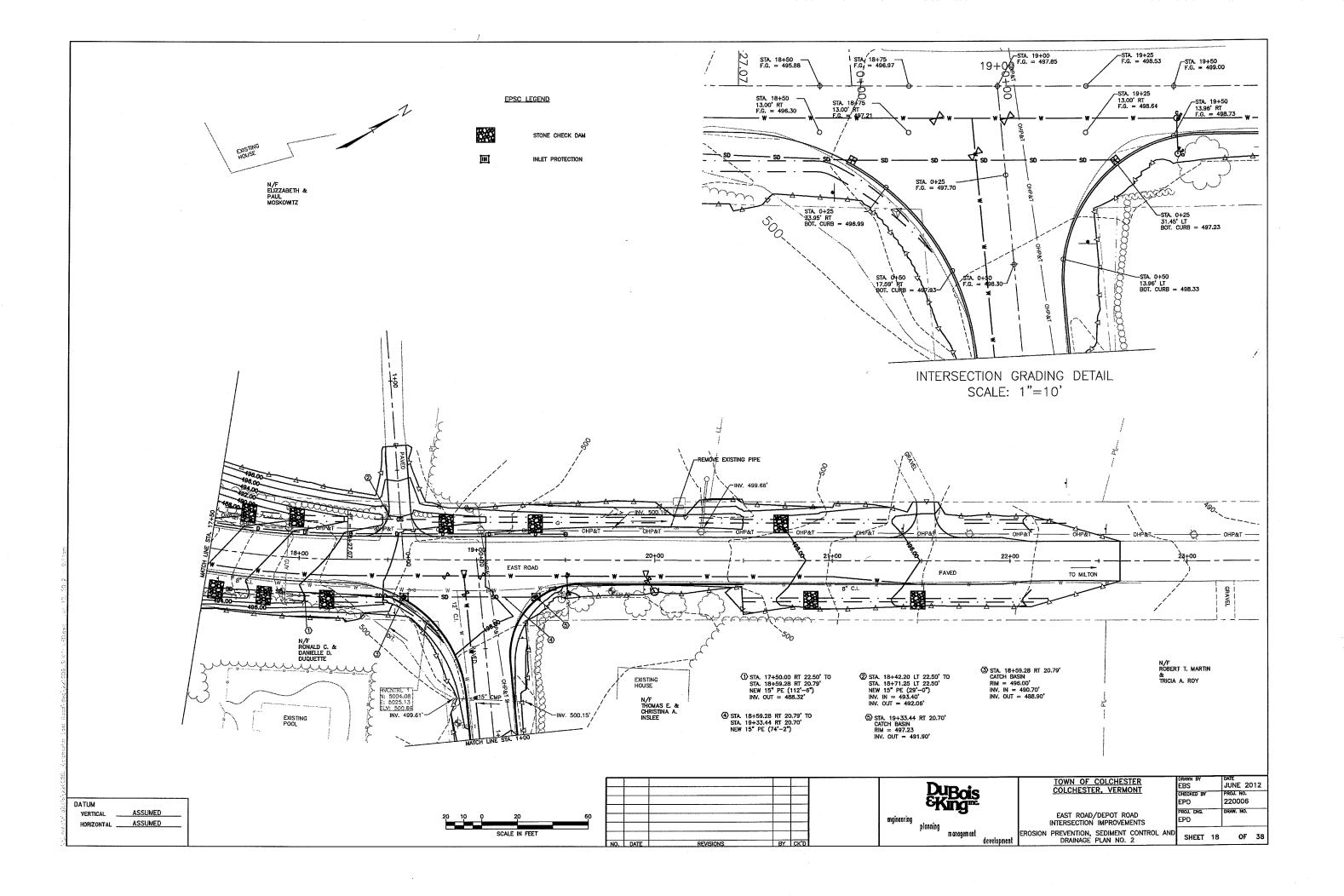
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EAST ROAD

TOWN OF COLCHESTER COLCHESTER, VERMONT	DRAWN BY EBS	JUNE 2012
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EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS	PROJ. ENG. EPD	DRAW. NO.
DEPOT ROAD PROFILE	SHEET 16	OF 38

0 10 0 20 60 SCALE IN FEET







STONE CHECK DAM

1111

INLET PROTECTION

CURVE DATA

CURVE NO. 3
P.I. STA. 2+09.56
N = 4953.6042
E = 5198.1745
A = 08*40*39*
R = 1200.00
T = 91.05
L = 181.74
E = 3.45

N/F THOMAS E. & CHRISTINA A. INSLEE N/F RONALD C. & DANIELLE D. DUQUETTE SIGN-SPEED LIMIT 35 APPROXIMATE EXISTING 3-ROD ROW CONC. SIDEWALK PAVED 5+85.71 ARBOR LANE APPROXIMATE EXISTING 3-ROD ROW

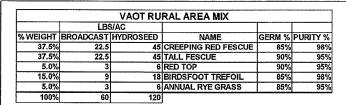
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TOWN OF COLCHESTER COLCHESTER, VERMONT

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SHEET 19	OF 38

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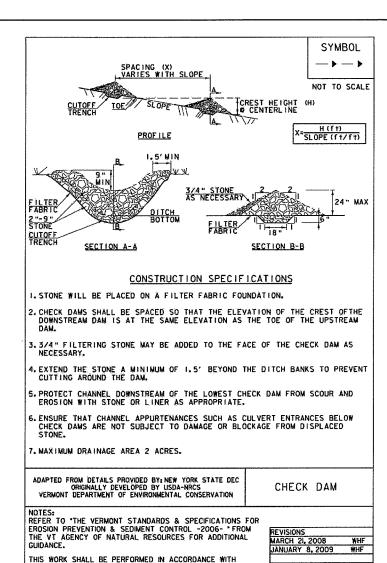
		VAOT UR	BAN AREA MIX				
	. LBS/AC						
%WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %		
42.5%	34	68	CREEPING RED FESCUE	85%	989		
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%		
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%		
5.0%	4	8	ANNUAL RYE GRASS	85%	95%		
100%	80	160		· · · · · · · · · · · · · · · · · · ·			

GENERAL GUIDANCE						
FERT	LIZER	LIME				
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED			
10-20-10	19-19-19	PELLETIZED	LIQUID			
500 LBS/AC		2 TONS/AC	4.4 GAL/AC			

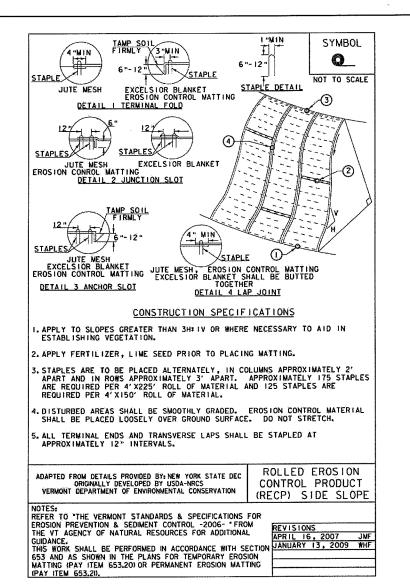
CONSTRUCTION GUIDANCE

- RURAL SEED MIXE USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
- 2.URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
- 3.ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- 4.FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
- 5.HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
- 6.TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 7.HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
- 8.TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ROADWAYS AND TRANSPORTATION FACILITIES	TURF	ESTABLISH	MENT
		EVISIONS JNE 23, 2009	WHF
	J.	ANUARY 15, 2010	WHF



SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE LIPAY ITEM 653.25)



EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

- 1. EROSION PREVENTION AND SEDIMENT CONTROL SHOULD BE PERFORMED IN ACCORDANCE WITH THE 2006 LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL PUBLISHED BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- 2. LOCATIONS AND QUANTITIES OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE APPROXIMATE. CONTRACTOR SHOULD ESTABLISH EROSION PREVENTION AND SEDIMENT CONTROL MEASURES BASED UPON FIELD CONDITIONS AND SHOULD REESTABLISH MEASURES BASED UPON CHANGES IN FIELD CONDITIONS OR AS DIRECTED BY THE RESIDENT ENGINEER.

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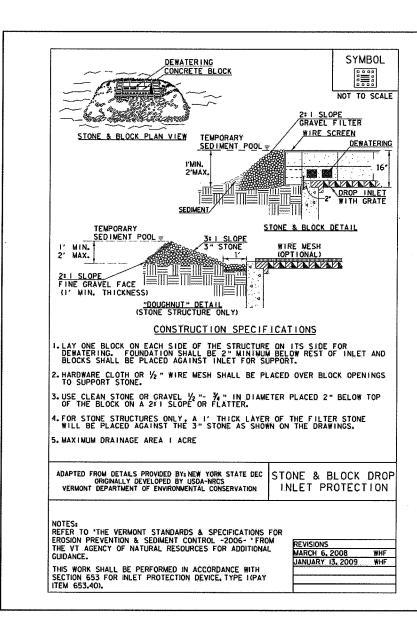
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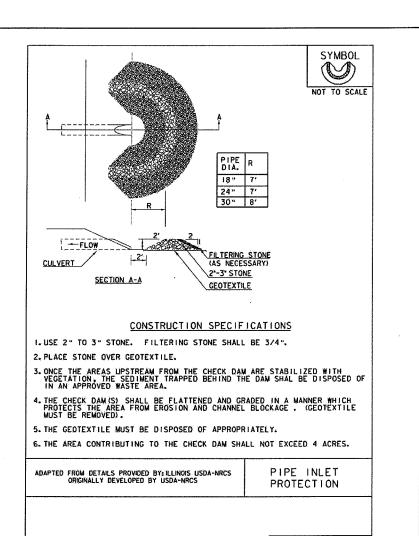
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EROSION CONTROL NOTES

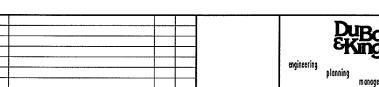
- 1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SPECIAL PROVISIONS CONTAINING IMPORTANT EROSION CONTROL REQUIREMENTS.
- 2. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED SOIL EXPOSED. TO EROSION FROM WIND AND WATER USING VEGETATIVE AND STRUCTURAL CONTROLS AND PROPER TIMING AND SEQUENCING OF CONSTRUCTION ACTIVITIES, AS SPECIFIED IN THE EROSION PREVENTION & SEDIMENT CONTROL PLAN IN THE SPECIAL PROVISIONS.
- 3. DIVERT OFF-SITE STORM WATER RUNOFF FROM HIGHLY ERODIBLE AREAS AND STEEP SLOPES AND CONVEY OFF-SITE STORM WATER TO STABLE AREAS. INSTALL NECESSARY EROSION PREVENTION & SEDIMENT CONTROL PRACTICES AS WORK TAKES PLACE.
- 4. THE CONTRACTOR SHALL DESIGNATE THE RESPONSIBILITIES FOR IMPLEMENTING THE EROSION PREVENTION & SEDIMENT CONTROL PLAN TO ONE INDIVIDUAL. THE CONTRACTOR SHALL ENSURE THAT ALL WORKERS UNDERSTAND THE MAJOR PROVISIONS OF THE EROSION PREVENTION & SEDIMENT CONTROL PLAN. PHYSICALLY MARK OFF LIMITS OF NECESSARY ON-SITE LAND DISTURBANCE WITH TAPE, SILT FENCE, OR OTHER METHODS AND REVIEW WITH WORKERS AND SUBCONTRACTORS SO THAT ALL WORKERS CAN SEE THE AREAS TO BE PROTECTED.
- 5. APPLY TEMPORARY OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETED.
- 6. ALL EARTH STOCKPILES SHALL BE PROTECTED BY A SILT FENCE AT THE PERIMETER AND COVERED WITH A BLANKET OF HAY MULCH.
- 7. STONE CHECK DAMS SHALL BE INSTALLED AS INDICATED AND WHERE DESIGNATED ON THE PLANS AND AS NECESSARY TO PREVENT EROSION DAMAGE FROM ANY CONSTRUCTION ACTIVITY.
- 8. STONE CHECK DAMS SHALL REMAIN IN PLACE UNTIL PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED AND APPROVED BY THE ENGINEER.
- 9. STONE CHECK DAMS SHALL BE PERIODICALLY INSPECTED TO INSURE THEY ARE IN GOOD CONDITION AND THAT AN EXCESSIVE BUILDUP OF SILT AND DEBRIS HAS NOT OCCURRED. NOTWITHSTANDING PERIODIC INSPECTIONS, STONE CHECK DAMS SHALL BE INSPECTED BEFORE AND AFTER RAINFALL EVENTS TO INSURE THEY ARE IN GOOD CONDITION BEFORE RAINFALL AND TO REMOVE EXCESSIVE BUILDUP OF SILT AND DEBRIS AFTER THE STORM EVENT.
- 10. SLOPED SURFACES SHALL BE ROUGHENED BY DRIVING TRACKED EQUIPMENT UP AND DOWN THE SLOPE AFTER SEEDING AND MULCHING IS COMPLETED. THE GROOVES CREATED BY THE TRACKED CONSTRUCTION EQUIPMENT SHALL RUN ACROSS THE SLOPE HORIZONTALLY AND NOT UP AND DOWN THE SLOPE.
- II. THE "VERMONT LOW RISK SITE HANDBOOK", DATED AUGUST 2006, SHALL BE UTILIZED AS A GUIDE FOR THE CONTROL OF EROSION AND SEDIMENT ON THE SITE. THE CONTRACTOR SHALL BE FAMILIAR WITH THE STANDARDS AND SPECIFICATIONS IN THIS PUBLICATION.
- 12. PERMANENT STABILIZATION MEASURES (SEED, STONE, ETC.) SHALL BE PLACED WITHIN 48 HOURS AFTER FINAL GRADING HAS BEEN COMPLETED. EXPOSED EARTH AREAS WILL BE TEMPORARILY STABILIZED SEEDED, MULCHED, OR MATTED) AT A MAXIMUM OF EVERY TWO WEEKS, UNLESS THE AREA IS BEING ACTUALLY WORKED ON.
- 13. THE TEMPORARY EASEMENT LIMIT SHALL BE MARKED IN THE FIELD AT EVEN 100-FOOT STATIONS (LEFT AND RIGHT) PRIOR TO ANY EXCAVATION OR FILLING OPERATIONS. THE MARKER SHALL BE GRADE STAKES WITH FLAGGING INDICATING THE STATION AND OFFSET DISTANCE. PAYMENT TO INSTALL AND MAINTAIN THE STAKES SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 635. II, "MOBILIZATION/DEMOBILIZATION".

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THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE LIPAY ITEM 653,40).

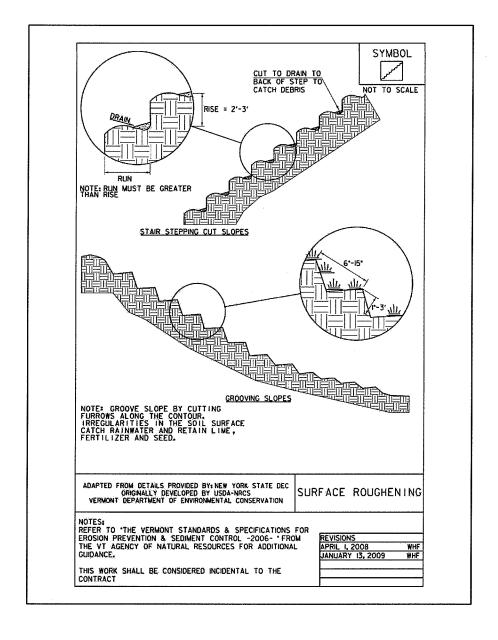


TOWN OF COLCHESTER

INTERSECTION IMPROVEMENTS

JUNE 2012 **EBS** CHECKED EPD 220006 EPD OF 38

EPSC DETAILS AND NOTES SHEET 2 SHEET 21



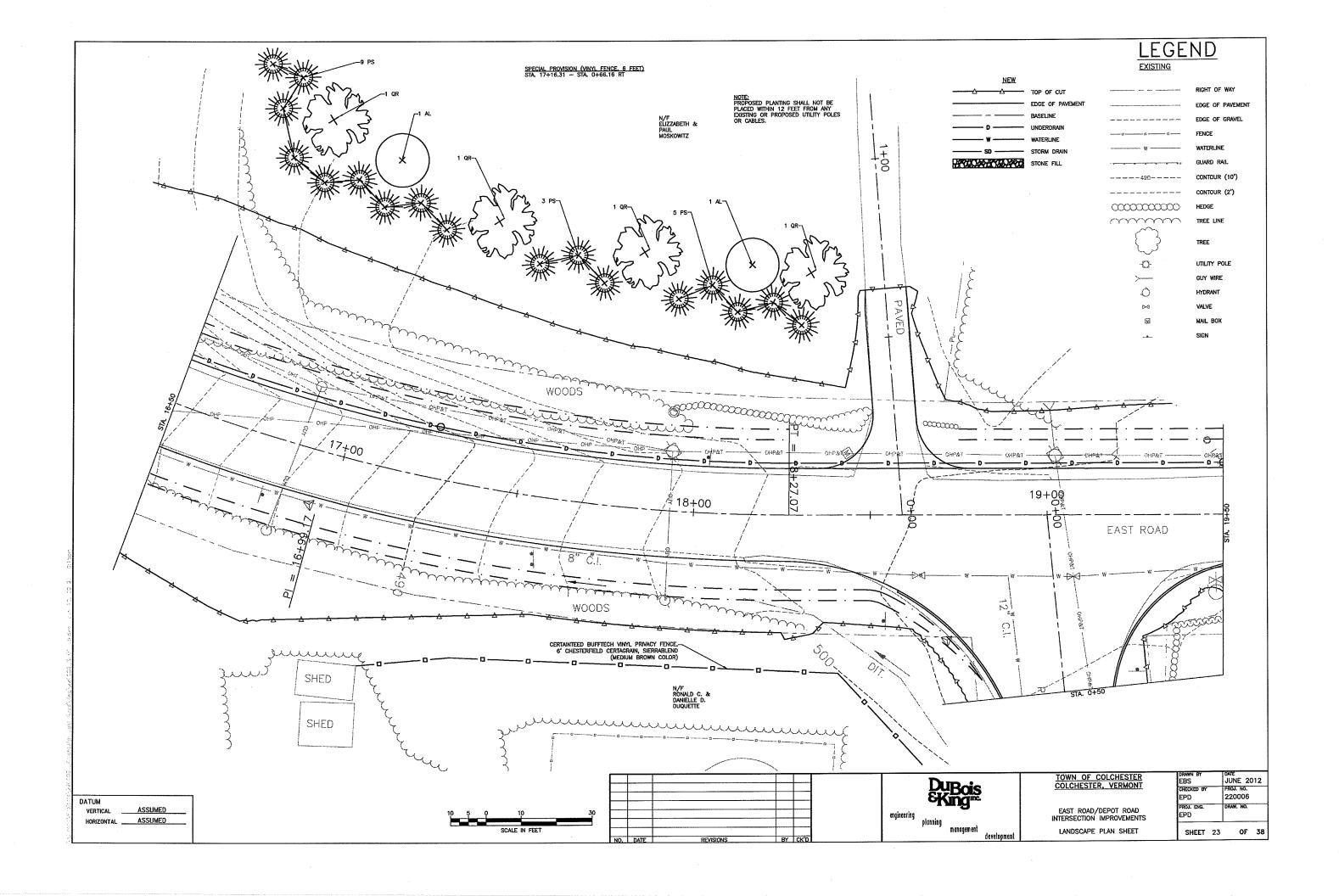
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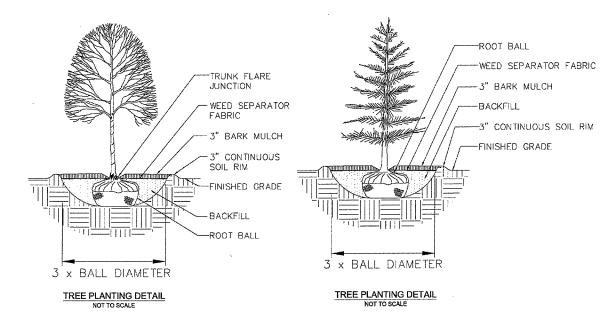
TOWN OF COLCHESTER COLCHESTER, VERMONT

EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS

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EPSC DETAILS AND NOTES SHEET 3





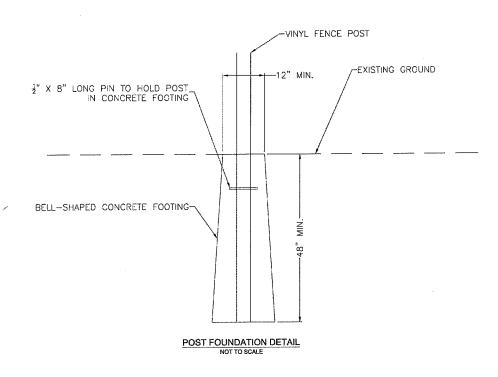
			PLANTI	NG TABLE			
CATEGORY	QUANTITY	KEY	BOTANICAL / COMMON NAME	SIZE	ROOT	REMARKS	PAY ITEM
DECIDUOUS TREES	4	QR	QUERCUS RUBRA /	1-3/4-2" CAL.	B&B	UNIFORM	LARGE TREES (DECIDUOUS
			RED OAK				
CONIFEROUS TREES	17	PS	PINUS STROBUS /	5-6' HT.	B&B	UNIFORM	LARGE TREES (CONIFEROUS
			WHITE PINE				
DECIDUOUS TREES	2	AL	AMELANCHIER LAEVIS /	6-7' HT.	B&B	UNIFORM	SMALL TREES (DECIDUOUS)
			ALLEGHANY SERVICEBERRY				
				1			

PLANTING NOTES:

- 1. PRIOR TO PLANTING, CHECK PLANTS DAILY AND WATER TO KEEP SOIL DAMP BUT NOT SOAKING WET.
- 2. ANTI DESICANT SPRAY MAY BE APPLIED TO ALL EVERGREENS AS PER MANUFACTURERS SPECIFICATIONS.
- 3. PLANT TREES AND SHRUBS SO THAT THE ROOT BALL FIRMLY ON TOP OF UNDISTURBED SOIL WITH THE JUNCTION TRUNK FLARE SLIGHTLY HIGHER (1-2") THAN THE FINISHED GRADE.
- 4. REMOVE TWINE AND BURLAP FROM TOP 1/3 OF BALL. IF SYNTHETIC, REMOVE COMPLETELY. REMOVE THE HALF OF WIRE BASKET AND CUT THE REMINDER IN NUMEROUS PLACES.
- 5. BACKFILL WITH SUITABLE SOIL FROM HOLE. AMEND WITH TOPSOIL AND COMPOST AS DIRECTED BY THE ENGINEER. LIGHTLY TAMP BACKFILL IN LAYERS TO REMOVE AIR POCKETS AND WATER THOROUGHLY WITHIN 48 HOURS OF PLANTING.
- 6. USE AGED, UNCOLORED DOUBLE SHREDDED BARK MULCH.TAPER MULCH TO BASE OF TRUNK.
- 7. STAKE AND GUY TREES WHEN NECESSARY TO STABILIZE ROOT BALL IN LOOSE SOIL OR HIGH WINDS AS DIRECTED BY THE ENGINEER. REMOVE ALL STAKES AND GUY MATERIALS ONE YEAR AFTER PLANTING.

CONSTRUCTION NOTES

- 1. THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO ALL EXISTING TREES, SHRUBS, WETLAND, TURF AND OTHER VEGETATED AREAS WITHIN THE CONSTRUCTION EASEMENT DURING THE PROJECT CONSTRUCTION PERIOD.
- 2. LIMITS OF ALL LANDSCAPE CONSTRUCTION ACTIVITIES SHALL NOT ENCROACH WITHIN 10 FEET OF ANY EXISTING TREE LINE UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- 3. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED, WITHIN 2 WEEKS OF FINAL GRADING UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- 4. ALL PLANTING LOCATIONS SHALL BE STAKED OUT PRIOR TO PLANTING. THE RESIDENT ENGINEER MAY ADJUST THE STAKES, AS NEEDED PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STAKES DURING CONSTRUCTION.
- 5. ALL LANDSCAPE CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMITS OF DISTURBANCE AS IDENTIFIED ON THE PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL NOT PLACE EQUIPMENT OR PERFORM WORK ON ADJACENT PROPERTIES WITHOUT WRITTEN PERMISSION FROM THE LANDOWNER AND RESIDENT ENGINEER.
- 6. THE CONTRACTOR SHALL VERIFY ALL PLANTING LOCATIONS AND QUANTITIES WITH THE RESIDENT ENGINEER PRIOR TO THE PLANTING. ADJUSTMENTS TO THE PLANTING DESIGN AND LAYOUT MAY BE REQUIRED BASED UPON ACTUAL FIELD CONDITIONS. QUANTITIES SHOWN ARE ESTIMATES ONLY AND ARE SUBJECT TO CHANGE.
- 7. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING VEGETATION OUTSIDE THE LIMITS OF THE CONSTRUCTION EASEMENTS USING PROJECT DEMARCATION FENCE AS DIRECTED BY THE RESIDENT ENGINEER. NO STORAGE OF HEAVY EQUIPMENT OR MATERIAL IS ALLOWED BEYOND THE LIMITS OF CONSTRUCTION.



DATUM

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COLCHESTER, VERMONT

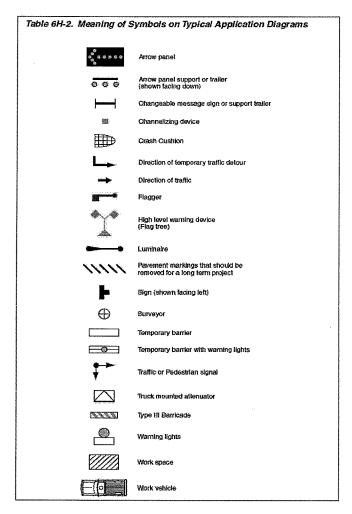
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INTERSECTION IMPROVEMENTS

LANDSCAPING DETAILS

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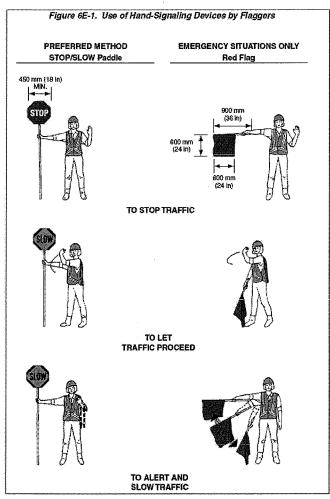
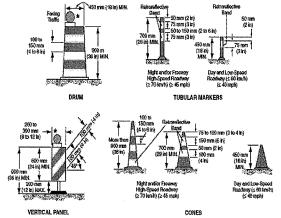


Figure 6F-7. Channelizing Devices (Sheet 1 of 2)



Note: If drums, cones, or kibular markers are used to channelize pedestrians, they shall be located such that there are no page between the bases of the dedices, in order to create a continuous bottom, and the height of each individue drum, come, or tucker marker that the no less than 900 cm; (25 in 1) be delectable to lorse of long canas.

INTRODUCTION:

- I. UNLESS OTHERWISE NOTED, THE OBJECTIVE OF THIS PLAN IS TO MINIMIZE IMPACT ON THE TRAFFIC FLOW WHILE PROVIDING A SAFE PASSAGE FOR VEHICLES AND PEDESTRIANS DURING AND AFTER CONSTRUCTION WORK HOURS.
- 2. THE FOLLOWING TRAFFIC CONTROL INFORMATION IS INTENDED TO BE A GENERAL OUTLINE FOR HOW THE WORK SHOULD PROCEED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPECIFIC DETAILS TO ADDRESS SPECIFIC SITUATIONS. THIS RESPONSIBILITY INCLUDES PROVIDING A PLAN DETAILING THE USE AND PLACEMENT OF SIGNS, CHANNELING DEVICES, ARROW PANELS, FLAGGERS AND UNIFORMED TRAFFIC OFFICERS (UTO'S) DURING LANE CLOSURES. IF THE CONTRACTOR DOES NOT WISH TO FOLLOW THIS OUTLINE, THE CONTRACTOR SHALL SUBMIT AN ALTERNATE PROPOSAL TO THE PAVEMENT MANAGEMENT SECTION VIA THE ENGINEER. THE CONTRACTOR MUST ALLOW AT LEAST 4 WEEKS FOR REVIEW AND APPROVAL OF THE COMPREHENSIVE PLAN AND 2 WEEKS FOR REVIEW AND APPROVAL OF MINOR CHANGES/DETAILS. ALL TRAFFIC CONTROL DETAILS MUST BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE MUTCH AND VIRANS STANDARDS E-100, E-100, E-101, E-102, E-102A, E-103, E-106, E-IO7, E-IO7A, E-IO8A, E-IIO, E-III AND E-II2. WHERE CONFLICTS EXIST, THE MUTCO SHALL GOVERN.

DATUM VERTICAL ASSUMED ASSUMED HORIZONTAL

development

TRAFFIC CONTROL NOTES

THEIR DUTIES.

REVISIONS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TO ENSURE THE LEAST INTERFERENCE WITH TRAFFIC.

5 A MINIMUM LANE WINTH OF IN FT. SHALL BE MAINTAINED.

STANDARD E-102A, SHALL BE PROVIDED.

BE CLOSED AND DETOURED.

1. ALL TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THESE PROJECT PLANS, APPLICABLE VTRANS E-SERIES STANDARD DRAWINGS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009, AND ITS LATEST

2. THE CONTRACTOR MUST PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES.

3. THE CONTRACTOR SHALL CONDUCT THE WORK AT ALL TIMES IN SUCH A MANNER AND IN SUCH SEQUENCE SO AS

4. SIGNS SHALL ONLY BE VISIBLE TO MOTORIST AT THE TIMES WHEN THE MESSAGE IS PERTINENT, I.E. A "FLAGGER

AHEAD" SIGN SHALL ONLY BE VISIBLE TO MOTORIST WHEN THE FLAGGER IS ACTUALLY PRESENT PERFORMING

7. THE CONTRACTOR SHOULD LEAVE NO LONGITUDINAL DROP-OFFS DURING THE OVERNIGHT HOURS.

SHORT DURATION (A FEW HOURS). COORDINATE MAJOR WORK ON COMMERCIAL OR MUNICIPAL

ARE COMPLETED. ANY CONFLICTING MARKINGS SHALL BE REMOVED.

REQUIRED AND APPROVED REFLECTIVE GARMENTS IS REQUIRED.

FREE OF WORK AND TRAFFIC CONTROLLED BY UNIFORMED TRAFFIC OFFICERS OR FLAGGERS AS REQUIRED.

IO. ALL PERMANENT SIGNS WHICH CONFLICT WITH TEMPORARY TRAFFIC CONTROL MUST BE COMPLETELY COVERED.

IL PLEASE NOTE THAT THE UTO (UNIFORMED TRAFFIC OFFICER), UNDER AUTHORITY GRANTED BY LAW (TITLE 23 VSA) MAY DIRECT AND CONTROL TRAFFIC. SUITABLE EXAMPLES IN WORK MIGHT INCLUDE THE DIRECTION AND CONTROLS OF TRAFFIC AT INTERSECTIONS WHERE SIGNALS ARE NOT FUNCTIONING OR ARE MALFUNCTIONING, IN THESE CASES,

THE PRESENCE OF THE BLUE LIGHT MAY NOT BE SUITABLE OR NECESSARY, THE WEARING OF DEPARTMENTALLY

6. WHEN COLD PLANED BITUMINOUS PAVEMENT IS OPEN TO TRAFFIC, A "MOTORCYCLES USE CAUTION" SIGN, AS PER VTRANS

8. MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES. MAINTAIN ACCESS TO ALL COMMERCIAL

AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS. ACCESS TO RESIDENTIAL PROPERTIES MAY BE RESTRICTED FOR A

ACCESSES WITH THE OWNER AT LEAST ONE WEEK PRIOR TO STARTING THE WORK. ALL ACCESSES SHALL ALSO BE KEPT

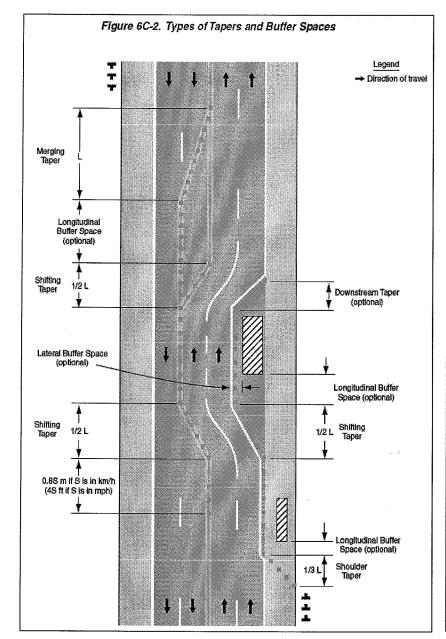
9. TRAFFIC SHALL NOT BE CHANGED FROM ONE PHASE TO THE NEXT PHASE UNTIL ALL TEMPORARY MARKINGS AND SIGNING WORK

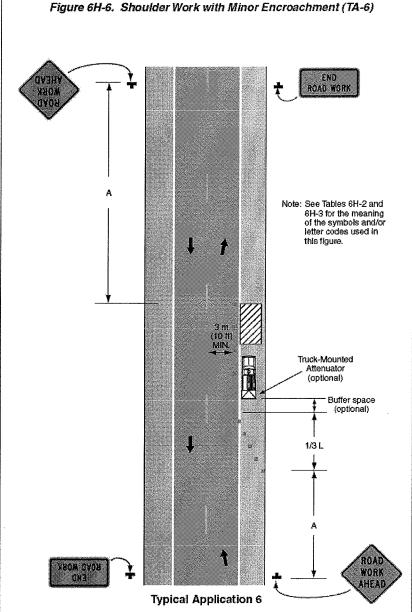
12. EAST ROAD AND DEPOT ROAD MUST BE KEPT OPEN TO AT LEAST ONE LANE OF TRAFFIC AT ALL TIMES. NEITHER ROAD CAN

EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS TRAFFIC CONTROL PLAN SHEET

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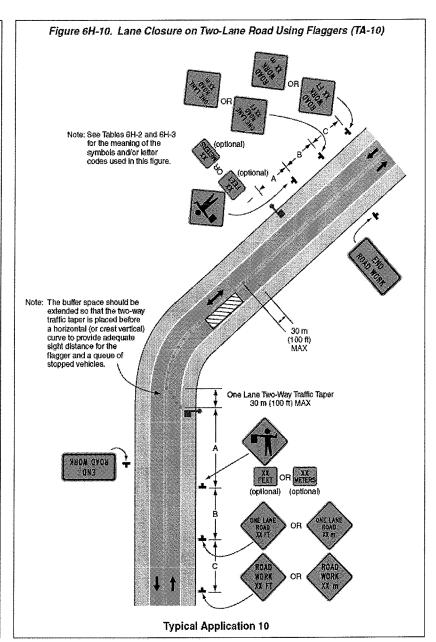


Table 6C-3. Taper Length Criteria for Temporary Traffic Control Zones

Type of Taper	Taper Length (L)*
Merging Taper	at least L
Shifting Taper	at least 0.5L
Shoulder Taper	at least 0.33£
One-Lane, Two-Way Traffic Taper	30 m (100 ft) maximum
Downstream Taper	90 m (100 ft) per lane

Table 6C-4. Formulas for Determining Taper Lengths

Speed Limit (S)	Taper Length (L) Meters	Speed Limit (S)	Taper Length (L) Feet
60 km/h or less	L = WS ² 195	40 mph or less	L = WS ²
70 km/h or more	L = WS	45 mph or more	L=WS

Where: L = taper length in meters (feet)

W = width of offset in meters (feet)

S = posted speed limit, or off-peak 95th-percentile speed prior to work starting, or the anticipated operating speed in km/h (mph)

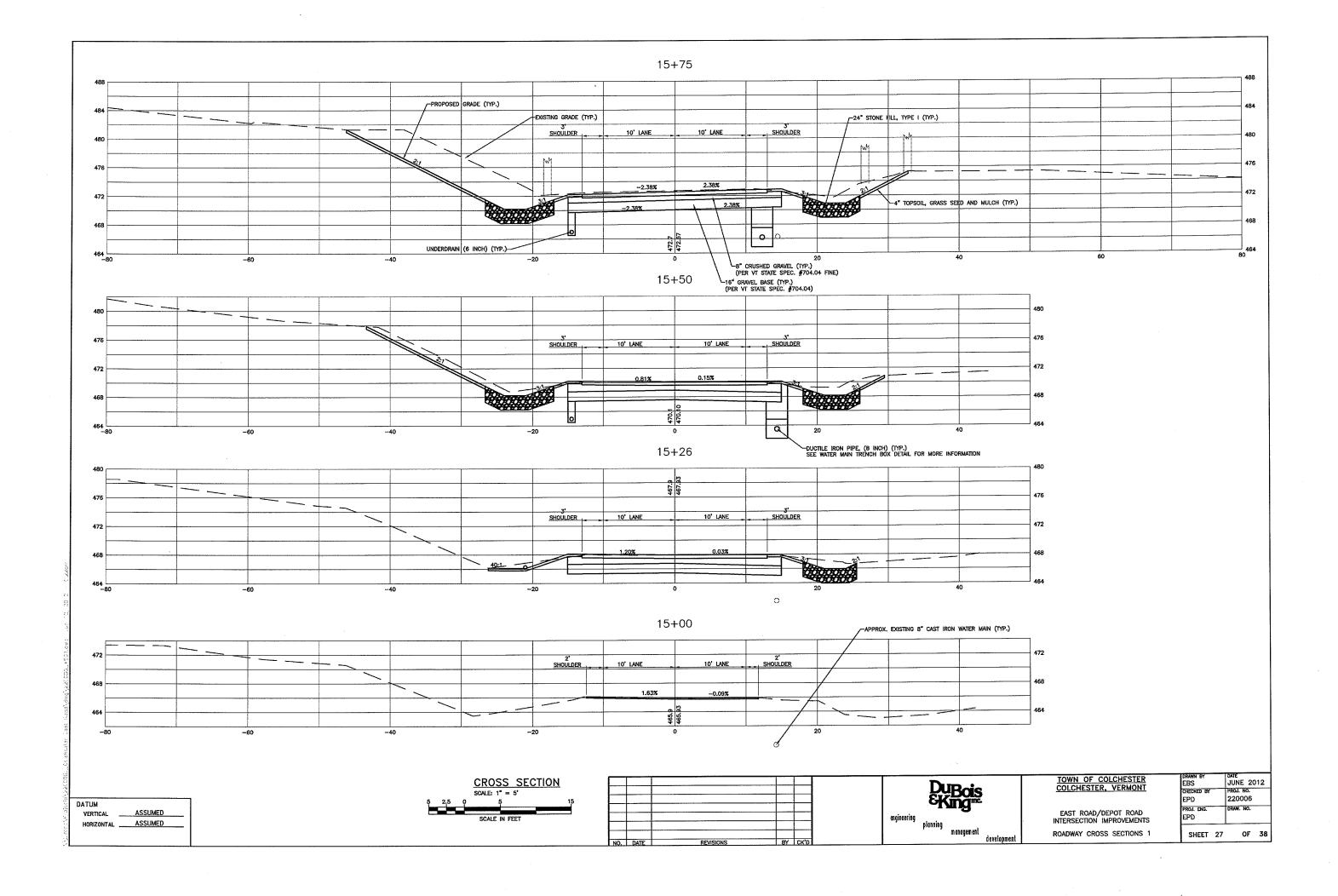
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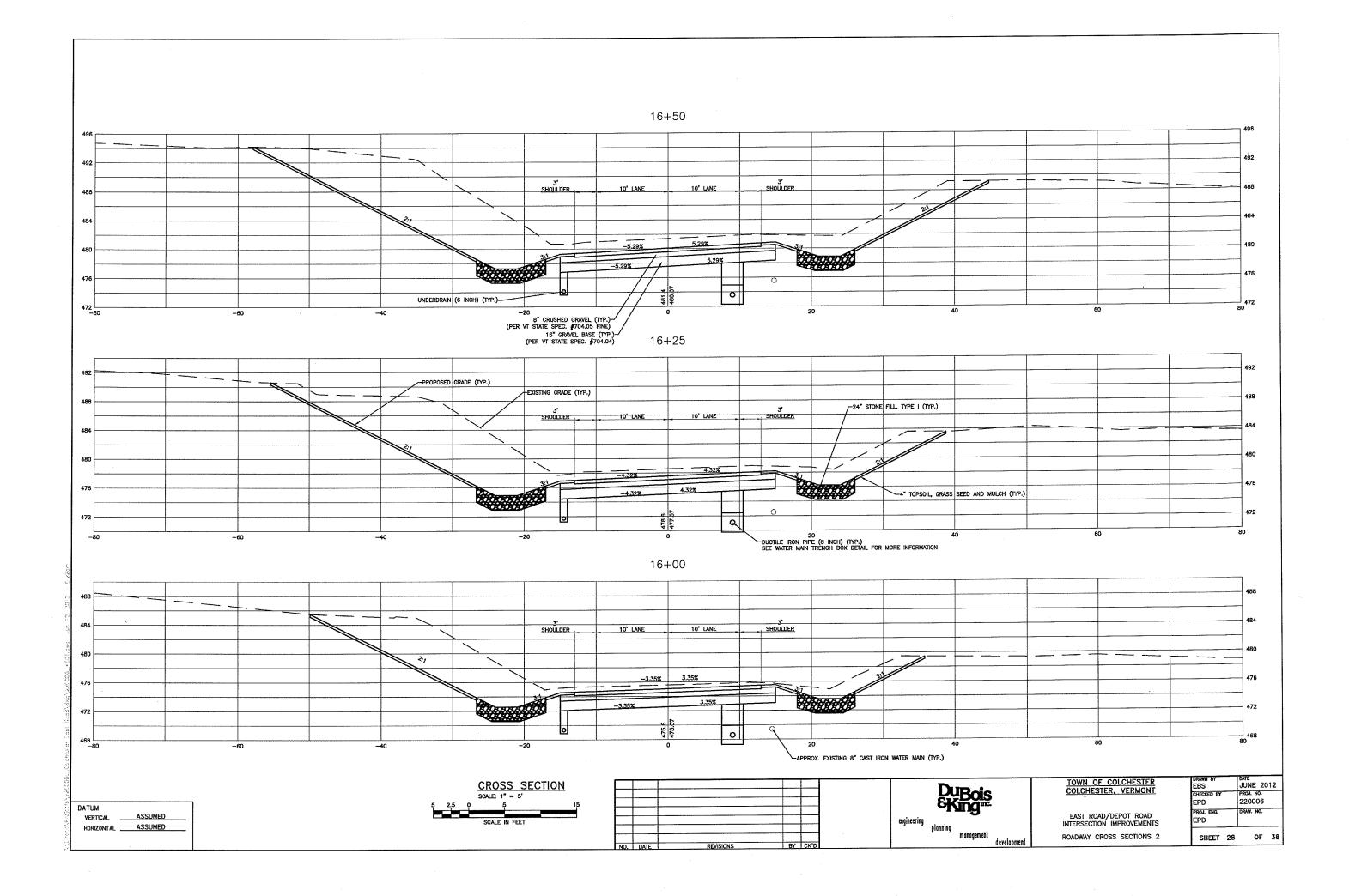
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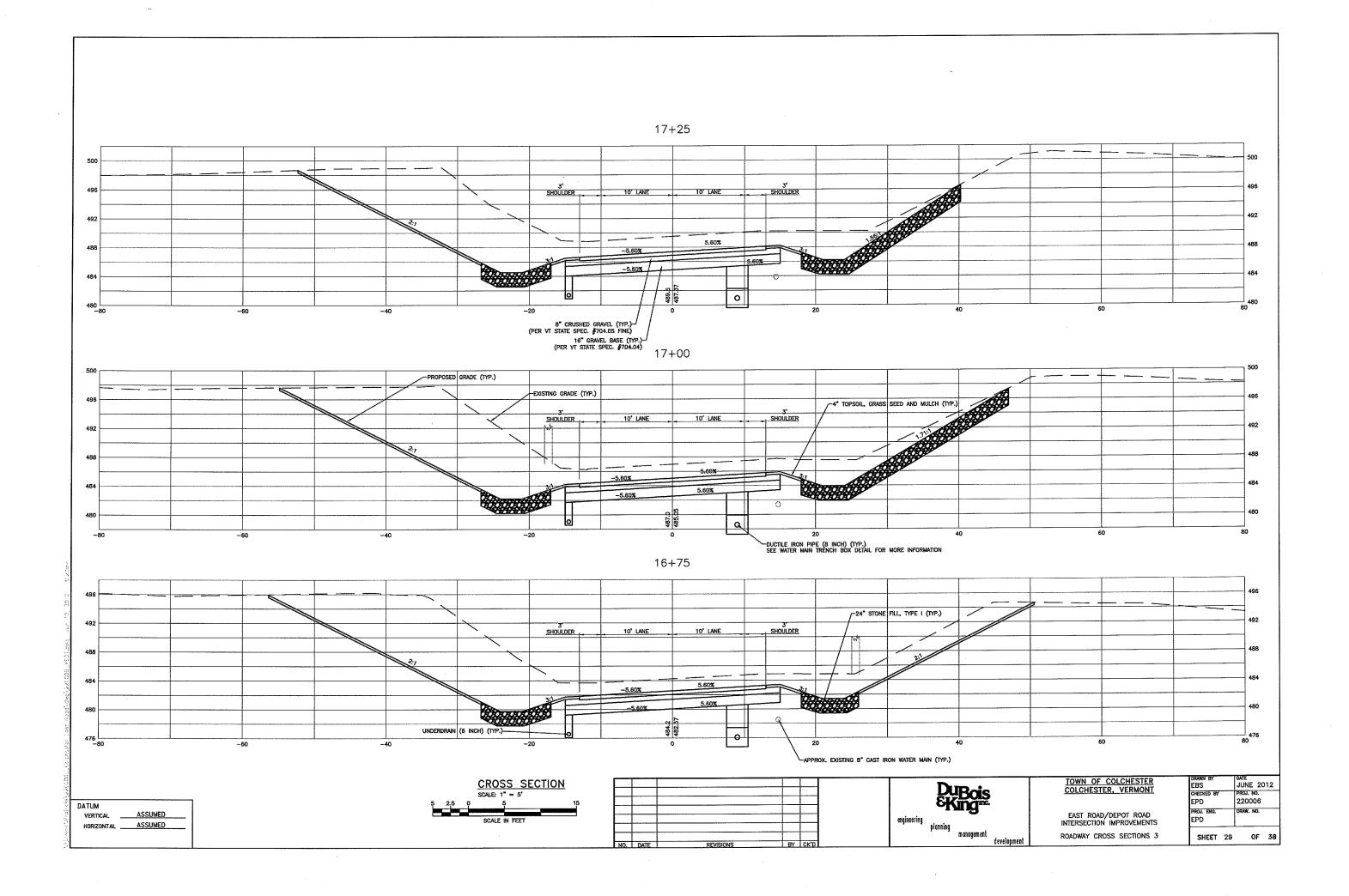
TOWN OF COLCHESTER COLCHESTER, VERMONT

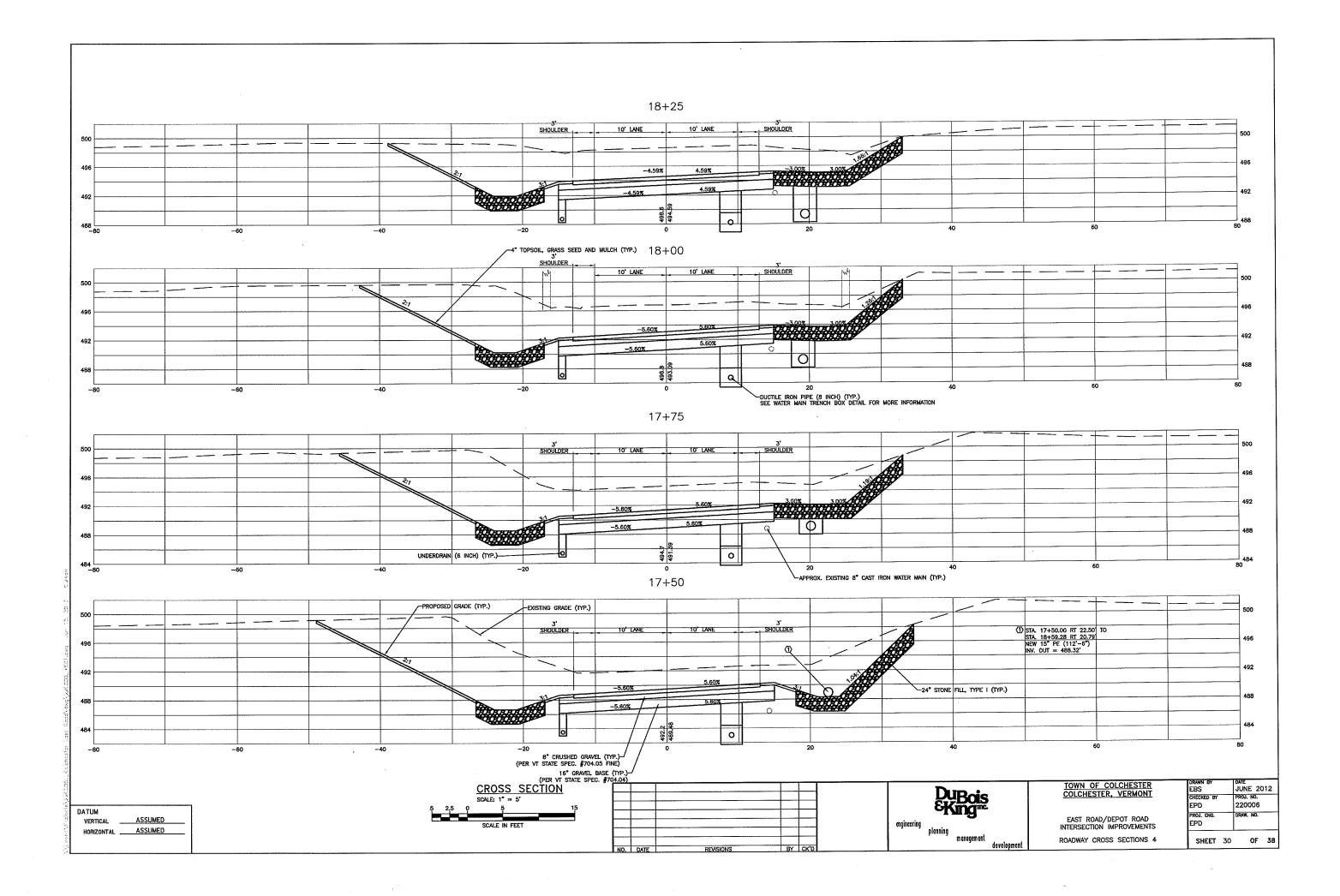
EAST ROAD/DEPOT ROAD INTERSECTION IMPROVEMENTS
TRAFFIC CONTROL PLAN SHEET 2

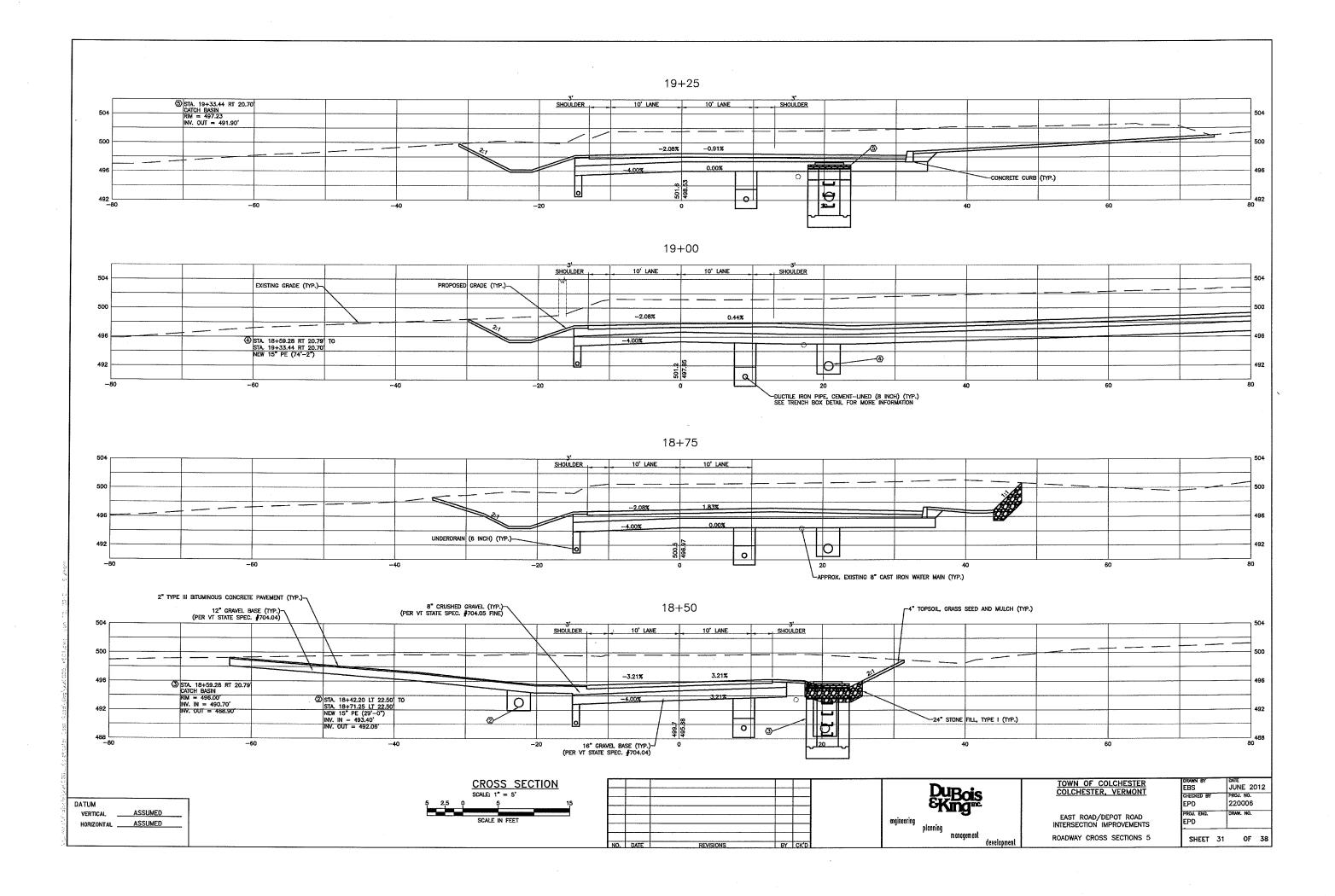
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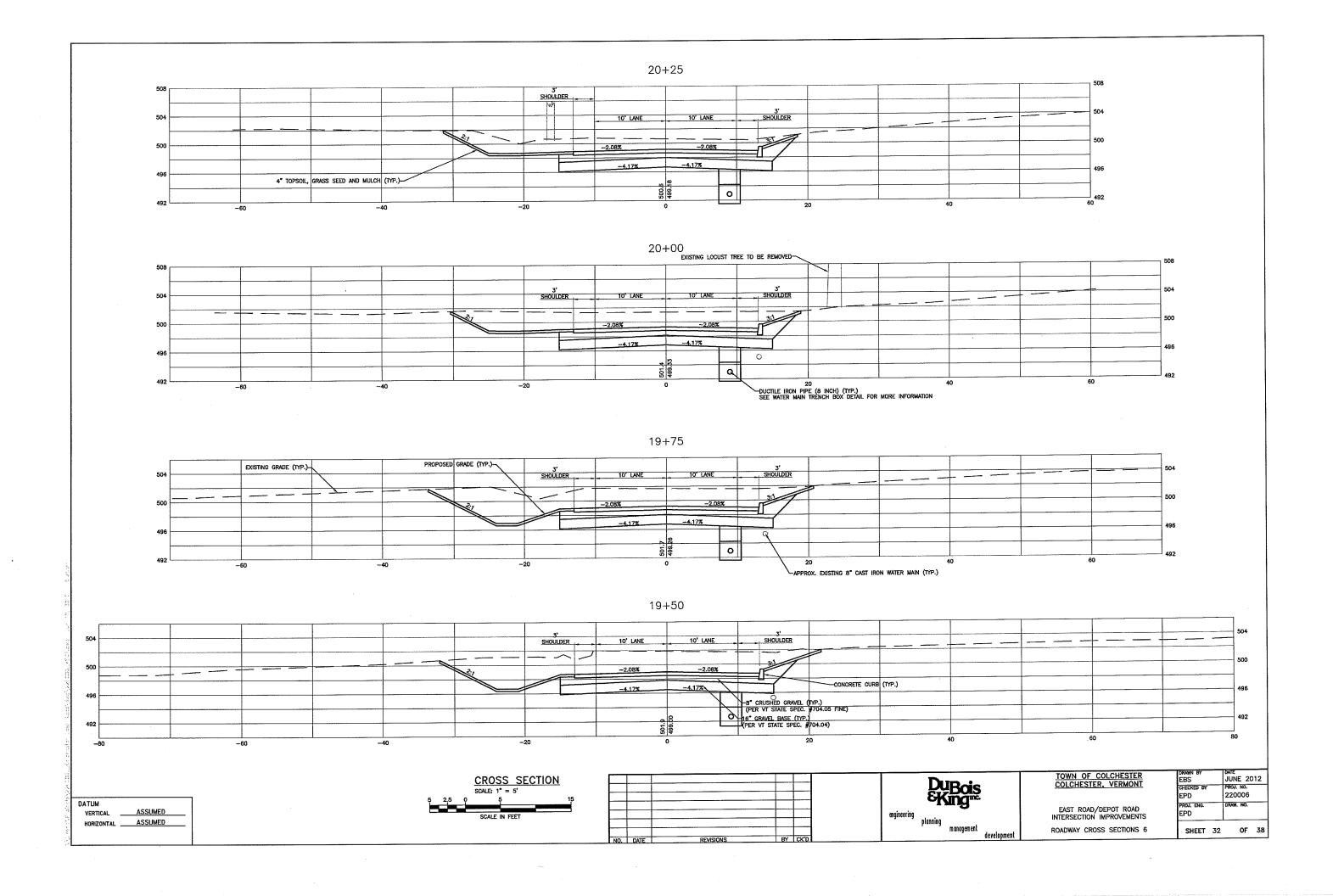


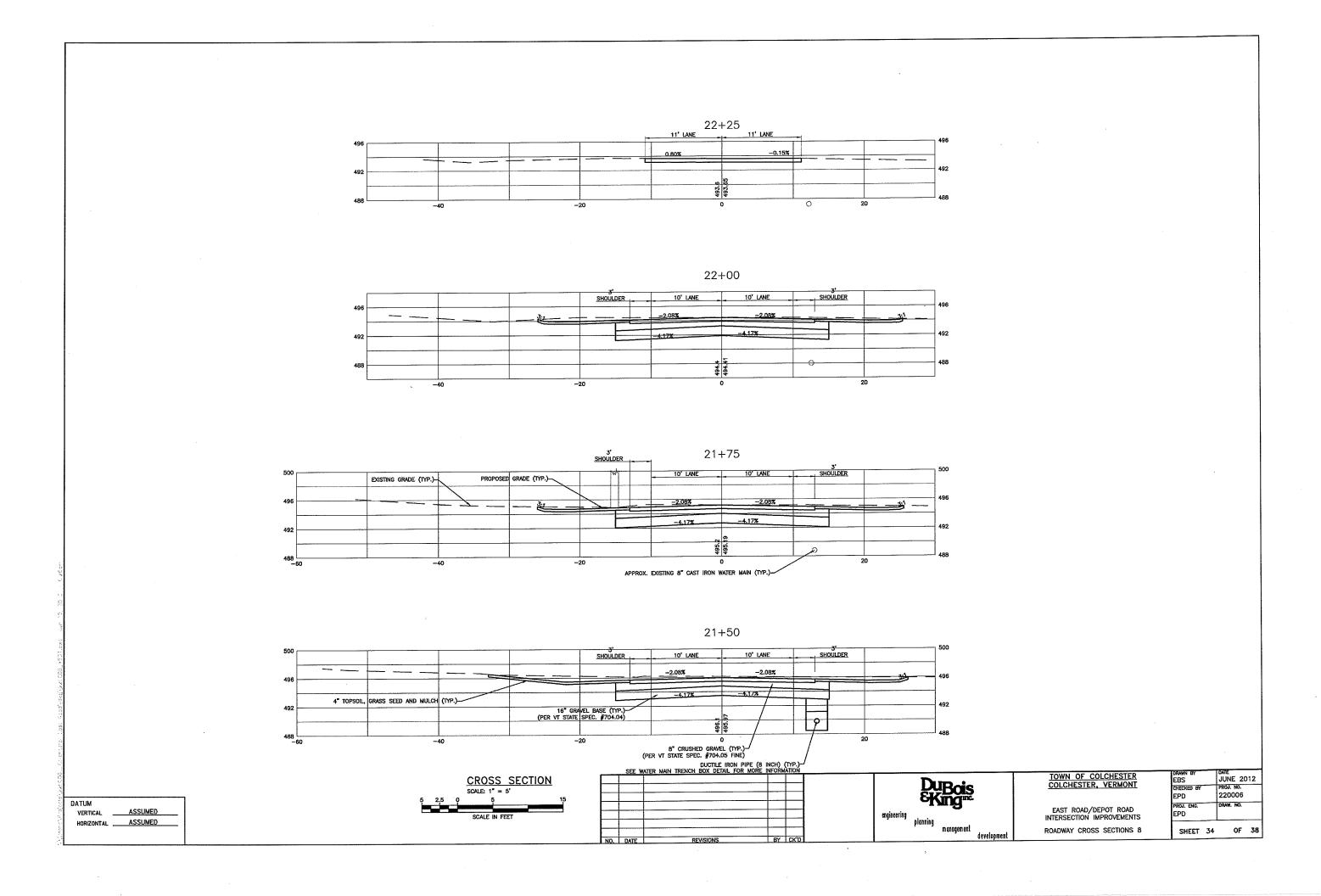


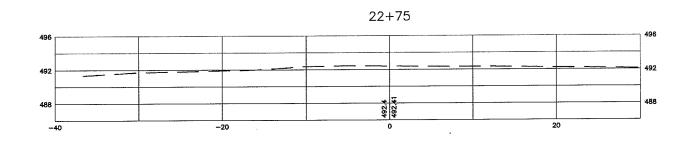


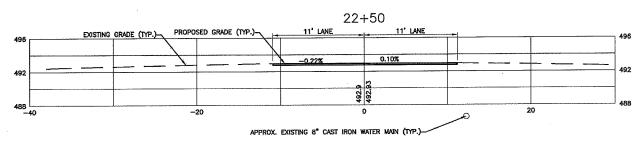












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